

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal611txm

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 DEC 05 CASREACT(R) - Over 10 million reactions available
NEWS 4 DEC 14 2006 MeSH terms loaded in MEDLINE/LMEDLINE
NEWS 5 DEC 14 2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER
NEWS 6 DEC 14 CA/Caplus to be enhanced with updated IPC codes
NEWS 7 DEC 21 IPC search and display fields enhanced in CA/Caplus with the
 IPC reform
NEWS 8 DEC 23 New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/
 USPAT2
NEWS 9 JAN 13 IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
NEWS 10 JAN 13 New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to
 INPADOC
NEWS 11 JAN 17 Pre-1988 INPI data added to MARPAT
NEWS 12 JAN 17 IPC 8 in the WPI family of databases including WPIFV
NEWS 13 JAN 30 Saved answer limit increased
NEWS 14 JAN 31 Monthly current-awareness alert (SDI) frequency
 added to TULSA
NEWS 15 FEB 21 STN AnaVist, Version 1.1, lets you share your STN AnaVist
 visualization results
NEWS 16 FEB 22 Status of current WO (PCT) information on STN
NEWS 17 FEB 22 The IPC thesaurus added to additional patent databases on STN
NEWS 18 FEB 22 Updates in EPFULL; IPC 8 enhancements added
NEWS 19 FEB 27 New STN AnaVist pricing effective March 1, 2006
NEWS 20 FEB 28 MEDLINE/LMEDLINE reload improves functionality
NEWS 21 FEB 28 TOXCENTER reloaded with enhancements
NEWS 22 FEB 28 REGISTRY/ZREGISTRY enhanced with more experimental spectral
 property data
NEWS 23 MAR 01 INSPEC reloaded and enhanced
NEWS 24 MAR 03 Updates in PATDPA; addition of IPC 8 data without attributes
NEWS 25 MAR 08 X.25 communication option no longer available after June 2006

NEWS EXPRESS FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,
 CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
 AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
 V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT
 <http://download.cas.org/express/v8.0-Discover/>

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
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NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 17:35:46 ON 08 MAR 2006

=> file reg

FILE 'REGISTRY' ENTERED AT 17:35:56 ON 08 MAR 2006

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 7 MAR 2006 HIGHEST RN 876109-17-0

DICTIONARY FILE UPDATES: 7 MAR 2006 HIGHEST RN 876109-17-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

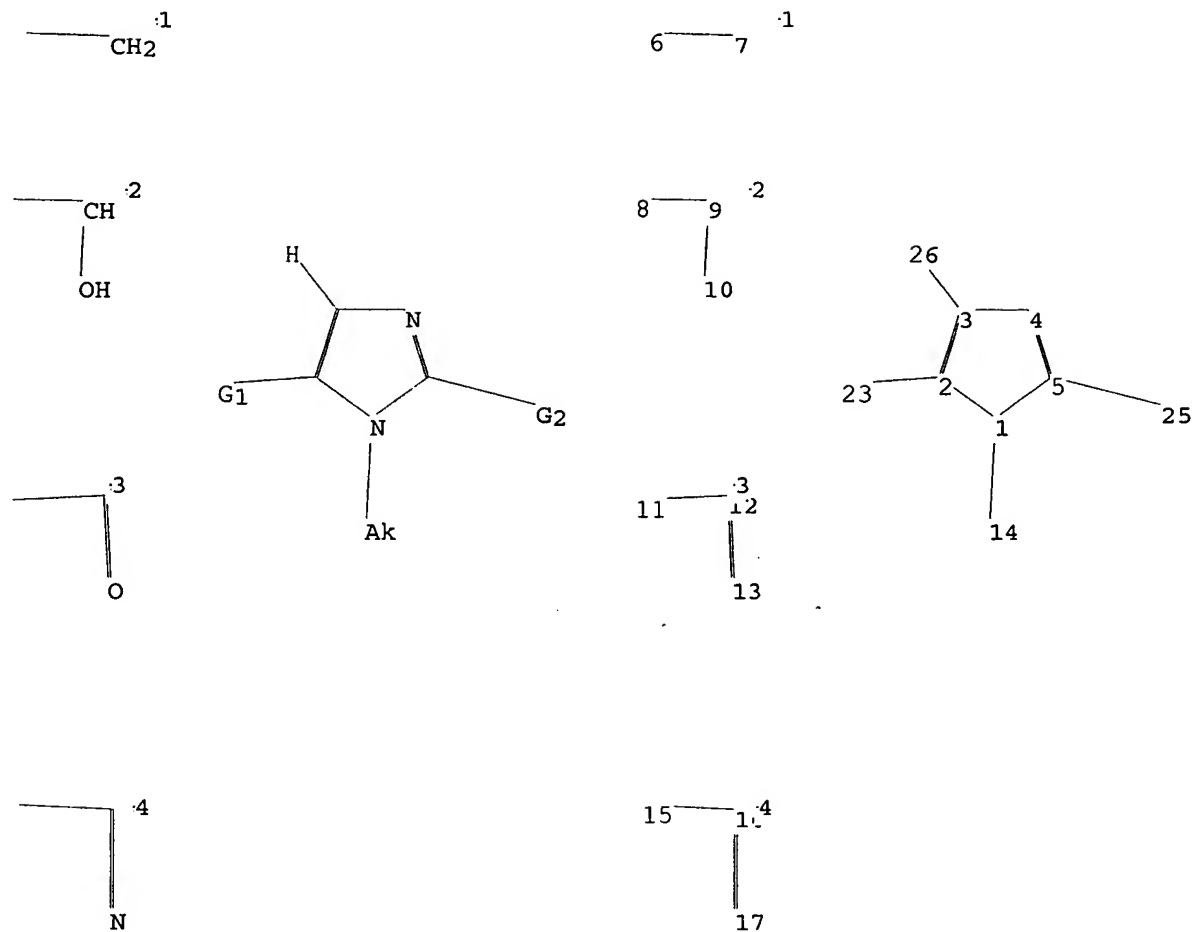
Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Documents and Settings\tmckenzie\My Documents\10757625.str



chain nodes :

7 9 10 12 13 14 16 17 23 25 26

ring nodes :

1 2 3 4 5 6 8 11 15

chain bonds :

1-14 2-23 3-26 5-25 6-7 8-9 9-10 11-12 12-13 15-16 16-17

ring bonds :

1-2 1-5 2-3 3-4 4-5

exact/norm bonds :

1-2 1-5 1-14 2-3 2-23 3-4 4-5 5-25 9-10 12-13 16-17

exact bonds :

3-26 6-7 8-9 11-12 15-16

G1: [*1], [*2], [*3], [*4]

G2: O, S, N

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:CLASS 10:CLASS

11:Atom 12:CLASS 13:CLASS 14:CLASS 15:Atom 16:CLASS 17:CLASS 23:CLASS

25:CLASS 26:CLASS

L1 STRUCTURE UPLOADED

=> s l1

SAMPLE SEARCH INITIATED 17:36:21 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2651 TO ITERATE

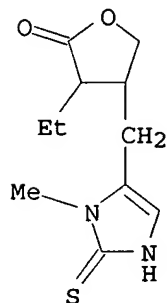
75.4% PROCESSED 2000 ITERATIONS 8 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
PROJECTED ITERATIONS: 49932 TO 56108
PROJECTED ANSWERS: 17 TO 407

L2 8 SEA SSS SAM L1

=> d scan

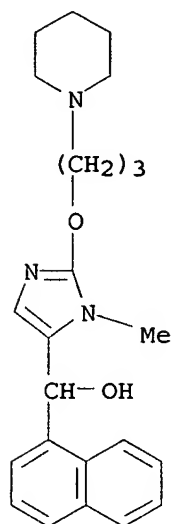
L2 8 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Imidazolebutyric acid, α -ethyl- β -(hydroxymethyl)-2-mercapto-1-
 methyl-, γ -lactone (5CI)
MF C11 H16 N2 O2 S



****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L2 8 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 1H-Imidazole-5-methanol, 1-methyl- α -1-naphthalenyl-2-[3-(1-
 piperidinyl)propoxy]- (9CI)
MF C23 H29 N3 O2



****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s l1 full

FULL SEARCH INITIATED 17:36:45 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 54922 TO ITERATE

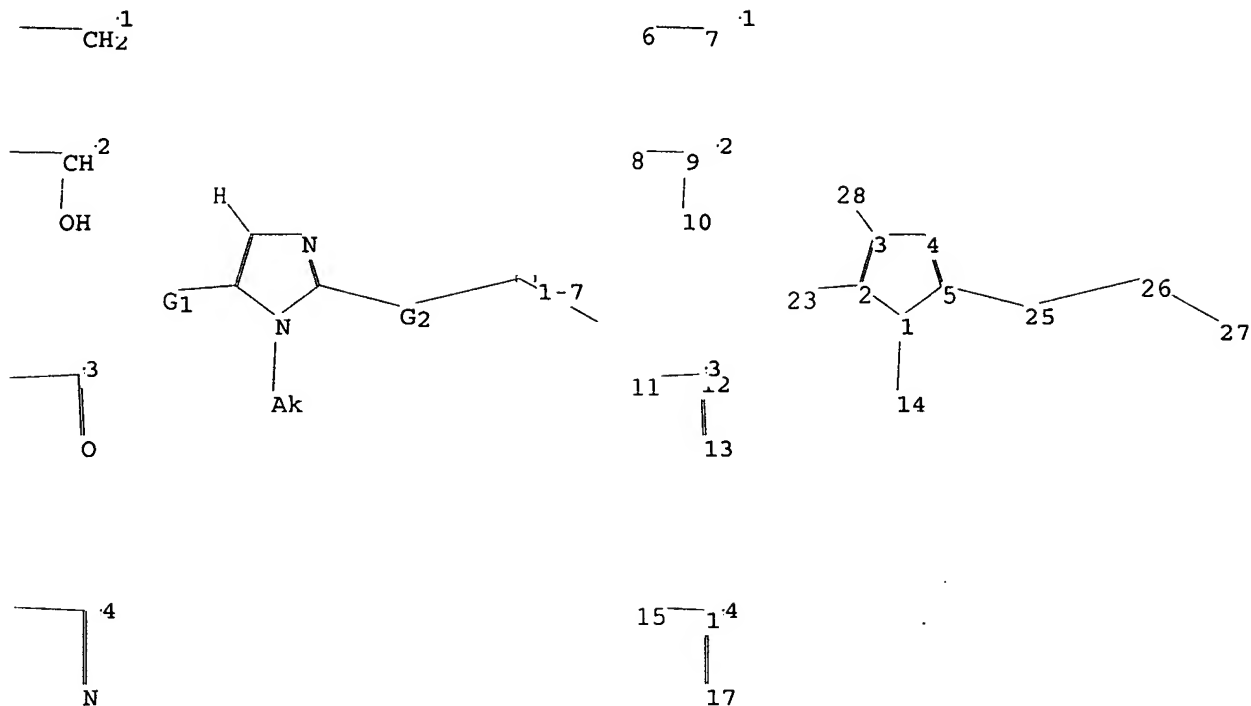
100.0% PROCESSED 54922 ITERATIONS
SEARCH TIME: 00.00.02

174 ANSWERS

L3 174 SEA SSS FUL L1

=>

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```

chain nodes :
7  9  10  12  13  14  16  17  23  25  26  28
ring nodes :
1  2  3  4  5  6  8  11  15
ring/chain nodes :
27
chain bonds :
1-14  2-23  3-28  5-25  6-7  8-9  9-10  11-12  12-13  15-16  16-17  25-26  26-27
ring bonds :
1-2  1-5  2-3  3-4  4-5
exact/norm bonds :
1-2  1-5  1-14  2-3  2-23  3-4  4-5  5-25  9-10  12-13  16-17  25-26
exact bonds :
3-28  6-7  8-9  11-12  15-16  26-27

```

G1: [*1], [*2], [*3], [*4]

G2 : O, S, N

Match level :

```
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:CLASS 10:CLASS
11:Atom 12:CLASS 13:CLASS 14:CLASS 15:Atom 16:CLASS 17:CLASS 23:CLASS
25:CLASS 26:CLASS 27:CLASS 28:CLASS
```

L4 STRUCTURE UPLOADED

=> s l4 subset = l3 sample

SAMPLE SUBSET SEARCH INITIATED 17:37:40 FILE 'REGISTRY'

SAMPLE SUBSET SCREEN SEARCH COMPLETED - 8 TO ITERATE

100.0% PROCESSED 8 ITERATIONS

7 ANSWERS

SEARCH TIME: 00.00.01

PROJECTIONS (WITHIN SPECIFIED SUBSET):

ONLINE **COMPLETE**

PROJECTED ITERATIONS (WITHIN SPECIFIED SUBSET):

8 TO 329

PROJECTED ANSWERS (WITHIN SPECIFIED SUBSET):

7 TO 298

L5 7 SEA SUB=L3 SSS SAM L4

=> s l4 subset = l3 full

FULL SUBSET SEARCH INITIATED 17:37:52 FILE 'REGISTRY'

FULL SUBSET SCREEN SEARCH COMPLETED - 174 TO ITERATE

100.0% PROCESSED 174 ITERATIONS

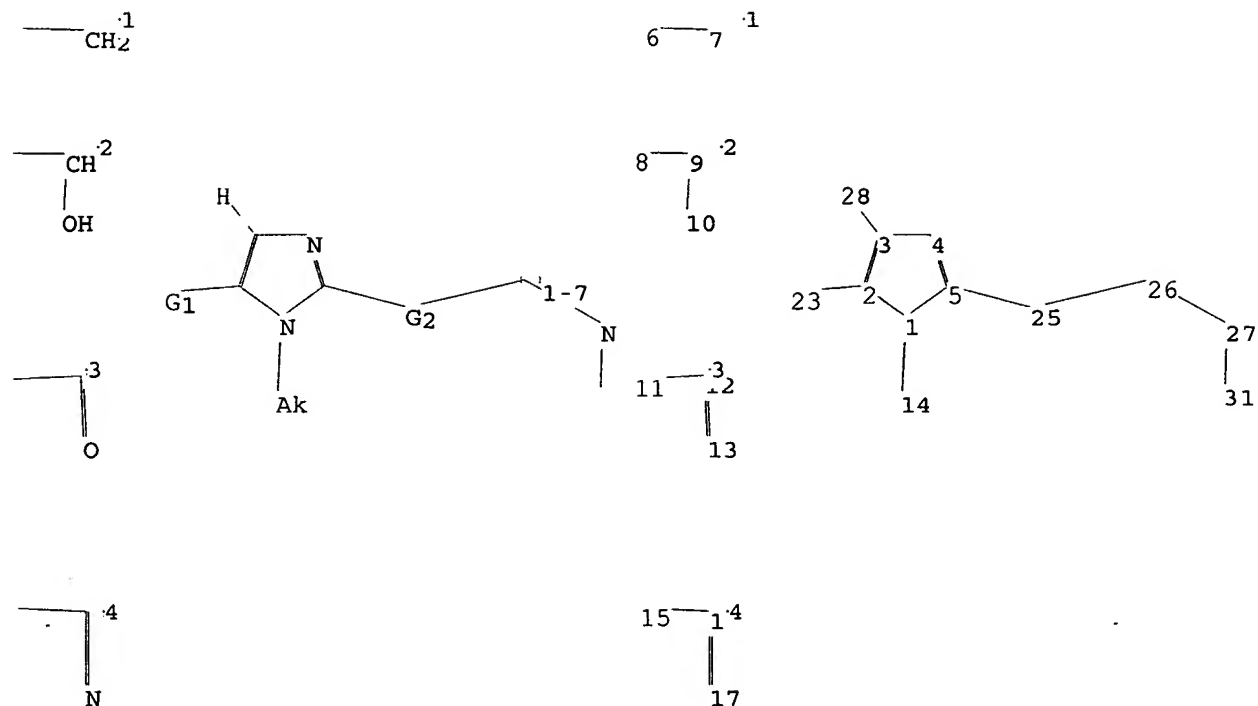
. 99 ANSWERS

SEARCH TIME: 00.00.01

L6 99 SEA SUB=L3 SSS FUL L4

=>

Uploading C:\Documents and Settings\tmckenzie\My Documents\10757625b.str



chain nodes :
7 9 10 12 13 14 16 17 23 25 26 28 31
ring nodes :
1 2 3 4 5 6 8 11 15
ring/chain nodes :
27
chain bonds :
1-14 2-23 3-28 5-25 6-7 8-9 9-10 11-12 12-13 15-16 16-17 25-26 26-27
27-31
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
1-2 1-5 1-14 2-3 2-23 3-4 4-5 5-25 9-10 12-13 16-17 25-26 26-27 27-31
exact bonds :
3-28 6-7 8-9 11-12 15-16

G1:[*1],[*2],[*3],[*4]

G2:O,S,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:CLASS 10:CLASS
11:Atom 12:CLASS 13:CLASS 14:CLASS 15:Atom 16:CLASS 17:CLASS 23:CLASS
25:CLASS 26:CLASS 27:CLASS 28:CLASS 31:CLASS

Thomas McKenzie

L7 STRUCTURE UPLOADED

=> s l7 subset = l3 sample

SAMPLE SUBSET SEARCH INITIATED 17:38:36 FILE 'REGISTRY'

SAMPLE SUBSET SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

PROJECTIONS (WITHIN SPECIFIED SUBSET): ONLINE **COMPLETE**

PROJECTED ITERATIONS (WITHIN SPECIFIED SUBSET): 0 TO 0

PROJECTED ANSWERS (WITHIN SPECIFIED SUBSET): 0 TO 0

L8 0 SEA SUB=L3 SSS SAM L7

=> s l7 subset = l3 full

FULL SUBSET SEARCH INITIATED 17:38:46 FILE 'REGISTRY'

FULL SUBSET SCREEN SEARCH COMPLETED - 20 TO ITERATE

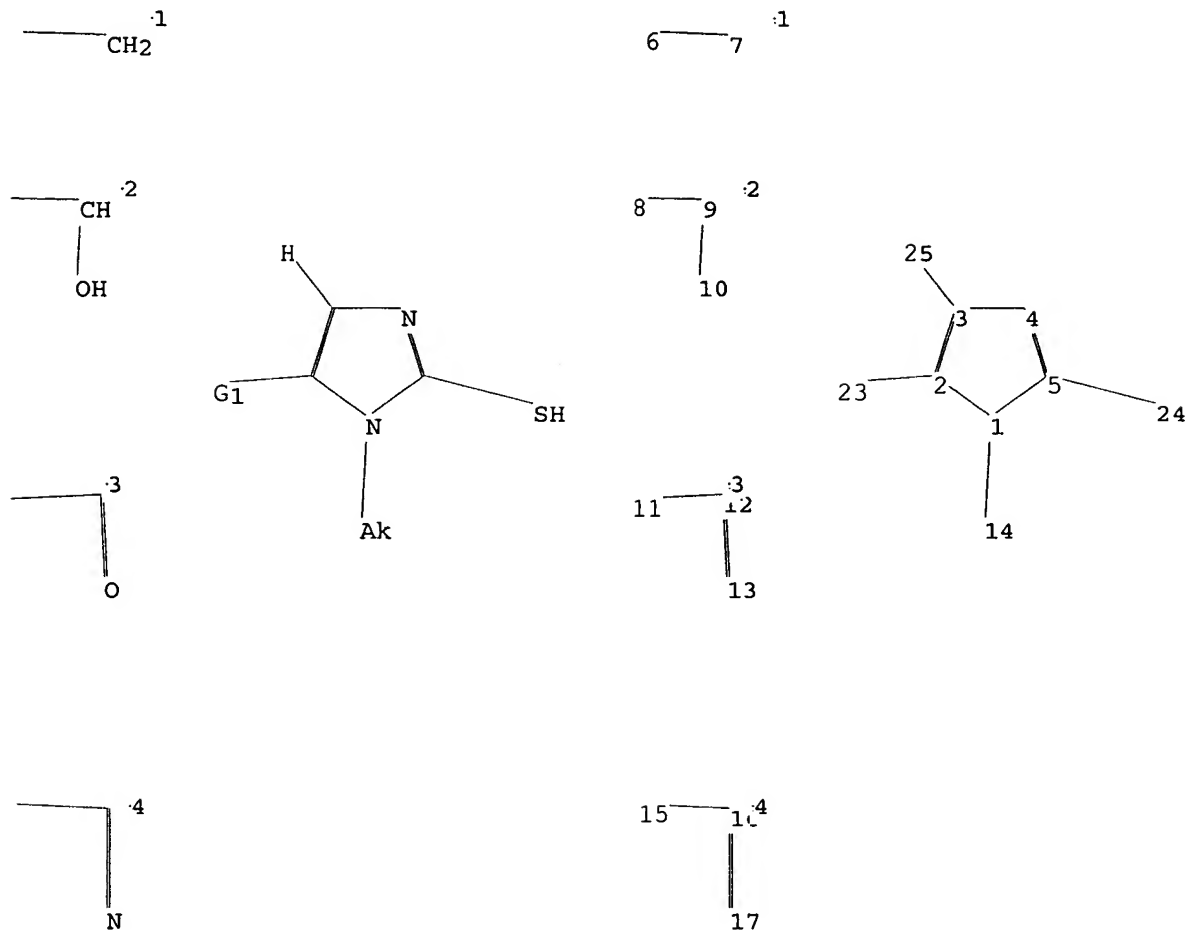
100.0% PROCESSED 20 ITERATIONS 15 ANSWERS

SEARCH TIME: 00.00.01

L9 15 SEA SUB=L3 SSS FUL L7

=>

Uploading C:\Documents and Settings\tmckenzie\My Documents\10757625c.str



chain nodes :
 7 9 10 12 13 14 16 17 23 24 25
 ring nodes :
 1 2 3 4 5 6 8 11 15
 chain bonds :
 1-14 2-23 3-25 5-24 6-7 8-9 9-10 11-12 12-13 15-16 16-17
 ring bonds :
 1-2 1-5 2-3 3-4 4-5
 exact/norm bonds :
 1-2 1-5 1-14 2-3 2-23 3-4 4-5 5-24 9-10 12-13 16-17
 exact bonds :
 3-25 6-7 8-9 11-12 15-16

G1: [*1], [*2], [*3], [*4]

Match level :
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:CLASS 10:CLASS
 11:Atom 12:CLASS 13:CLASS 14:CLASS 15:Atom 16:CLASS 17:CLASS 23:CLASS
 24:CLASS 25:CLASS

L10 STRUCTURE UPLOADED

Thomas McKenzie

=> s l10 subset = l3 sample
 SAMPLE SUBSET SEARCH INITIATED 17:39:24 FILE 'REGISTRY'
 SAMPLE SUBSET SCREEN SEARCH COMPLETED - 3 TO ITERATE

100.0% PROCESSED 3 ITERATIONS 1 ANSWERS
 SEARCH TIME: 00.00.01

PROJECTIONS (WITHIN SPECIFIED SUBSET): ONLINE **COMPLETE**
 PROJECTED ITERATIONS (WITHIN SPECIFIED SUBSET): 3 TO 163
 PROJECTED ANSWERS (WITHIN SPECIFIED SUBSET): 1 TO 80

L11 1 SEA SUB=L3 SSS SAM L10

=> s l10 subset = l3 full
 FULL SUBSET SEARCH INITIATED 17:39:33 FILE 'REGISTRY'
 FULL SUBSET SCREEN SEARCH COMPLETED - 115 TO ITERATE

100.0% PROCESSED 115 ITERATIONS 30 ANSWERS
 SEARCH TIME: 00.00.01

L12 30 SEA SUB=L3 SSS FUL L10

=> file caold caplus; s wo-2002079168?/pn
 FILE 'CAOLD' ENTERED AT 17:40:24 ON 08 MAR 2006
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FILE 'CAPLUS' ENTERED AT 17:40:24 ON 08 MAR 2006
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 COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

L13 1 WO-2002079168?/PN

=> s l9

L14 2 L9

=> s l14 not l13

L15 1 L14 NOT L13

=> d cbib pi hitstr

L15 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
 2005:1201083 Document No. 143:460319 Scalable, regioselective synthesis of
 imidazole derivatives as histamine H3 receptor ligands. Jones, Todd K.;
 Mani, Neelakandha (USA). U.S. Pat. Appl. Publ. US 2005250948 A1 20051110,
 55 pp. (English). CODEN: USXXCO. APPLICATION: US 2005-123631 20050506.
 PRIORITY: US 2004-2004/PV569405 20040507.

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---|------|----------|-----------------|----------|
| PI | US 2005250948 | A1 | 20051110 | US 2005-123631 | 20050506 |
| | WO 2005110998 | A1 | 20051124 | WO 2005-US16041 | 20050506 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, | | | | |

SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

IT 465613-33-6P

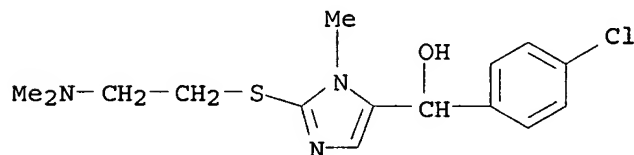
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

(preparation and oxidation of, with manganese dioxide; scalable, regioselective

synthesis of imidazole derivs. as histamine H3 receptor ligands)

RN 465613-33-6 CAPLUS

CN 1H-Imidazole-5-methanol, α -(4-chlorophenyl)-2-[[2-(dimethylamino)ethyl]thio]-1-methyl- (9CI) (CA INDEX NAME)



IT 465614-56-6P

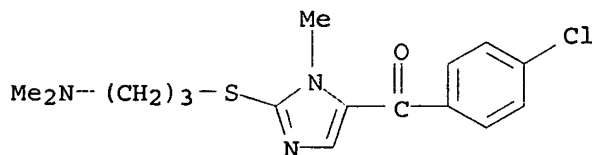
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

(preparation, receptor binding and deoxygenation or S-oxidation of; scalable,

regioselective synthesis of imidazole derivs. as histamine H3 receptor ligands)

RN 465614-56-6 CAPLUS

CN Methanone, (4-chlorophenyl) [2-[[3-(dimethylamino)propyl]thio]-1-methyl-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



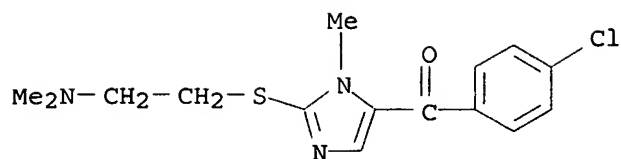
IT 465613-27-8P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

(preparation, receptor binding and oximation of; scalable, regioselective synthesis of imidazole derivs. as histamine H3 receptor ligands)

RN 465613-27-8 CAPLUS

CN Methanone, (4-chlorophenyl) [2-[[2-(dimethylamino)ethyl]thio]-1-methyl-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)

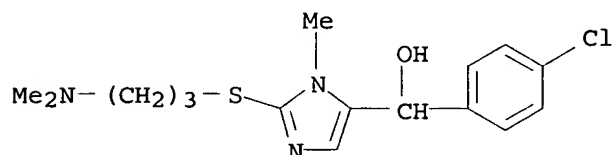


IT 465613-34-7P 465614-89-5P 465615-20-7P
 465615-52-5P 465615-65-0P 465615-89-8P
 465617-99-6P 465618-03-5P 465618-15-9P
 465618-19-3P 869002-45-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL
 (Biological study); PREP (Preparation)
 (scalable, regioselective synthesis of imidazole derivs. as histamine
 H3 receptor ligands)

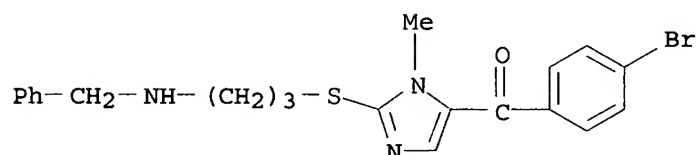
RN 465613-34-7 CAPLUS

CN 1H-Imidazole-5-methanol, α -(4-chlorophenyl)-2-[[3-(
 (dimethylamino)propyl]thio]-1-methyl- (9CI) (CA INDEX NAME)



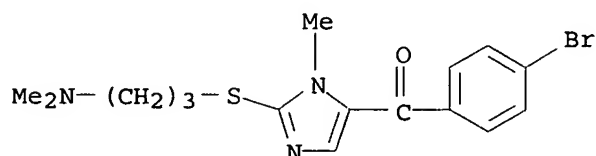
RN 465614-89-5 CAPLUS

CN Methanone, (4-bromophenyl) [1-methyl-2-[[3-[(phenylmethyl)amino]propyl]thio]
]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



RN 465615-20-7 CAPLUS

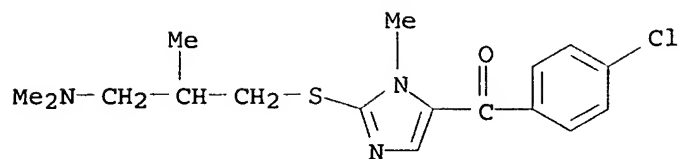
CN Methanone, (4-bromophenyl) 2-[[3-(dimethylamino)propyl]thio]-1-methyl-1H-
 imidazol-5-yl]- (9CI) (CA INDEX NAME)



RN 465615-52-5 CAPLUS

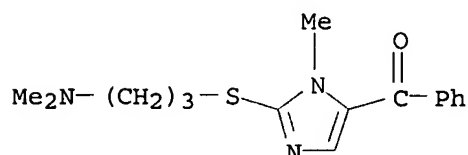
CN Methanone, (4-chlorophenyl) 2-[[3-(dimethylamino)-2-methylpropyl]thio]-1-
 methyl-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)

Thomas McKenzie



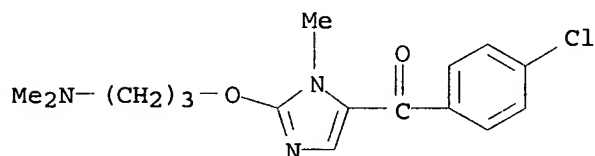
RN 465615-65-0 CAPLUS

CN Methanone, [2-[[3-(dimethylamino)propyl]thio]-1-methyl-1H-imidazol-5-yl]phenyl- (9CI) (CA INDEX NAME)



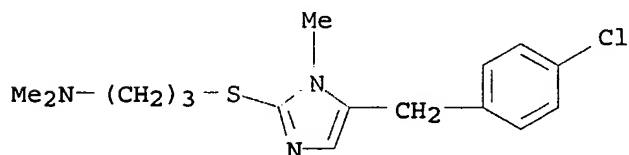
RN 465615-89-8 CAPLUS

CN Methanone, (4-chlorophenyl) [2-[3-(dimethylamino)propoxy]-1-methyl-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



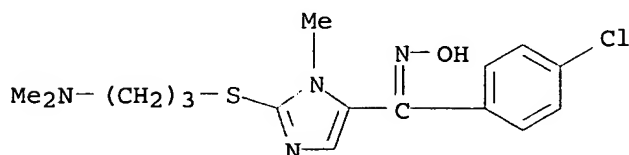
RN 465617-99-6 CAPLUS

CN 1-Propanamine, 3-[[5-[(4-chlorophenyl)methyl]-1-methyl-1H-imidazol-2-yl]thio]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 465618-03-5 CAPLUS

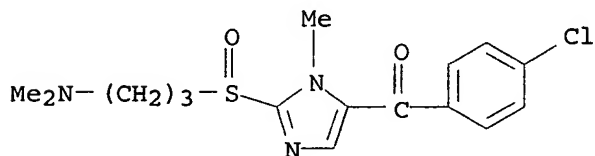
CN Methanone, (4-chlorophenyl) [2-[[3-(dimethylamino)propyl]thio]-1-methyl-1H-imidazol-5-yl]-, oxime (9CI) (CA INDEX NAME)



Thomas McKenzie

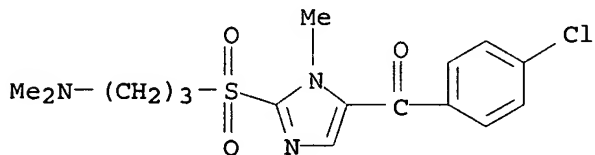
RN 465618-15-9 CAPLUS

CN Methanone, (4-chlorophenyl) [2-[[3-(dimethylamino)propyl]sulfinyl]-1-methyl-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



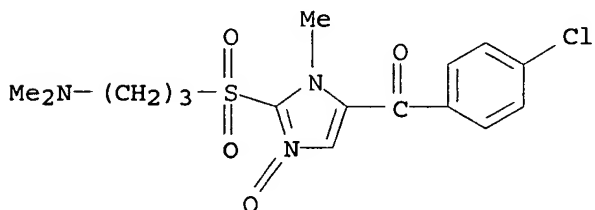
RN 465618-19-3 CAPLUS

CN Methanone, (4-chlorophenyl) [2-[[3-(dimethylamino)propyl]sulfonyl]-1-methyl-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



RN 869002-45-9 CAPLUS

CN Methanone, (4-chlorophenyl) [2-[[3-(dimethylamino)propyl]sulfonyl]-1-methyl-3-oxido-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



=> s l12

L16 14 L12

=> s l16 not l13

L17 13 L16 NOT L13

=> sort l17 py

SORT ENTIRE ANSWER SET? (Y)/N:.

PROCESSING COMPLETED FOR L17

L18 13 SORT L17 PY

=> d 1-5 cbib pi hitstr

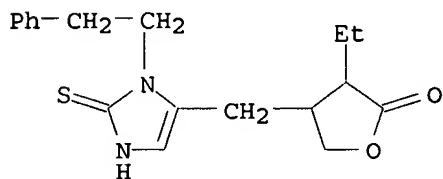
L18 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

1953:25396 Document No. 47:25396 Original Reference No. 47:4345g-i,4346a-b

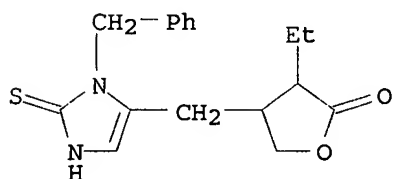
Synthesis of δ -coniceine. Winterfeld, Karl; Muller, Erich (Univ.

Thomas McKenzie

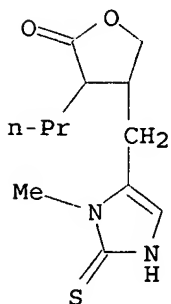
Bonn, Germany). Arch. Pharm., 284, 269-76 (Unavailable) 1951.
 IT 858221-09-7, 5-Imidazolebutyric acid, α -ethyl- β -(hydroxymethyl)-2-mercapto-1-phenethyl-, γ -lactone
 858221-13-3, 5-Imidazolebutyric acid, 1-benzyl- α -ethyl- β -(hydroxymethyl)-2-mercapto-, γ -lactone 872784-26-4,
 5-Imidazolebutyric acid, β -(hydroxymethyl)-2-mercapto-1-methyl- α -propyl-, γ -lactone 872784-27-5, 5-Imidazolebutyric
 acid, β -(hydroxymethyl)-2-mercapto-1-methyl-, γ -lactone
 872784-28-6, 5-Imidazolebutyric acid, β -(hydroxymethyl)- α -isopropyl-2-mercapto-1-methyl-, γ -lactone
 (preparation of)
 RN 858221-09-7 CAPLUS
 CN 5-Imidazolebutyric acid, α -ethyl- β -(hydroxymethyl)-2-mercapto-1-phenethyl-, γ -lactone (5CI) (CA INDEX NAME)



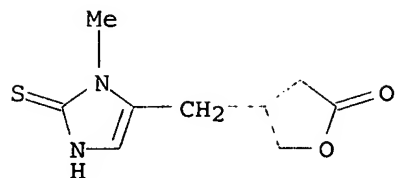
RN 858221-13-3 CAPLUS
 CN 5-Imidazolebutyric acid, 1-benzyl- α -ethyl- β -(hydroxymethyl)-2-mercapto-, γ -lactone (5CI) (CA INDEX NAME)



RN 872784-26-4 CAPLUS
 CN 5-Imidazolebutyric acid, β -(hydroxymethyl)-2-mercapto-1-methyl- α -propyl-, γ -lactone (5CI) (CA INDEX NAME)

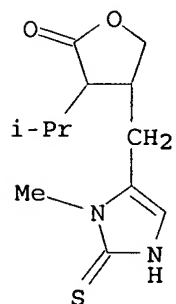


RN 872784-27-5 CAPLUS
 CN 5-Imidazolebutyric acid, β -(hydroxymethyl)-2-mercapto-1-methyl-, γ -lactone (5CI) (CA INDEX NAME)



RN 872784-28-6 CAPLUS

CN 5-Imidazolebutyric acid, β -(hydroxymethyl)- α -isopropyl-2-mercapto-1-methyl-, γ -lactone (5CI) (CA INDEX NAME)



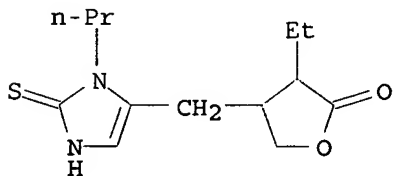
L18 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

1953:25395 Document No. 47:25395 Original Reference No. 47:4345c-g New method of preparation of pilocarpine alkaloids. Preobrazhenskii, N. A.; Maurit, M. E.; Smirnova, G. V. Doklady Akademii Nauk SSSR, 81, 613-16 (Unavailable) 1951. CODEN: DANKAS. ISSN: 0002-3264.

IT 858221-07-5, 5-Imidazolebutyric acid, α -ethyl- β -(hydroxymethyl)-2-mercapto-1-propyl-, γ -lactone 858221-11-1, 5-Imidazolebutyric acid, α ,1-diethyl- β -(hydroxymethyl)-2-mercapto-, γ -lactone 872784-26-4, 5-Imidazolebutyric acid, β -(hydroxymethyl)-2-mercapto-1-methyl- α -propyl-, γ -lactone 872784-27-5, 5-Imidazolebutyric acid, β -(hydroxymethyl)-2-mercapto-1-methyl-, γ -lactone 872784-28-6, 5-Imidazolebutyric acid, β -(hydroxymethyl)- α -isopropyl-2-mercapto-1-methyl-, γ -lactone (preparation of)

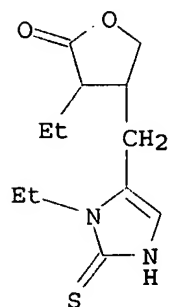
RN 858221-07-5 CAPLUS

CN 5-Imidazolebutyric acid, α -ethyl- β -(hydroxymethyl)-2-mercapto-1-propyl-, γ -lactone (5CI) (CA INDEX NAME)



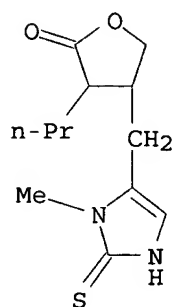
RN 858221-11-1 CAPLUS

CN 5-Imidazolebutyric acid, α ,1-diethyl- β -(hydroxymethyl)-2-mercapto-, γ -lactone (5CI) (CA INDEX NAME)



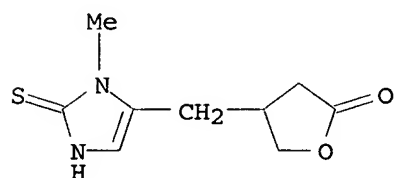
RN 872784-26-4 CAPLUS

CN 5-Imidazolebutyric acid, β -(hydroxymethyl)-2-mercapto-1-methyl-,
 α -propyl-, γ -lactone (5CI) (CA INDEX NAME)



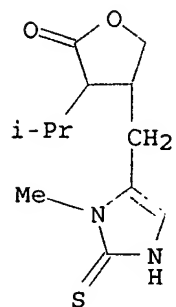
RN 872784-27-5 CAPLUS

CN 5-Imidazolebutyric acid, β -(hydroxymethyl)-2-mercapto-1-methyl-,
 γ -lactone (5CI) (CA INDEX NAME)



RN 872784-28-6 CAPLUS

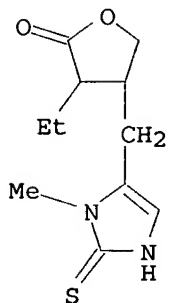
CN 5-Imidazolebutyric acid, β -(hydroxymethyl)- α -isopropyl-2-
mercapto-1-methyl-, γ -lactone (5CI) (CA INDEX NAME)



IT 858221-10-0, 5-Imidazolebutyric acid, α -ethyl- β -(hydroxymethyl)-2-mercapto-1-methyl-, γ -lactone (stereoisomers)

RN 858221-10-0 CAPLUS

CN 5-Imidazolebutyric acid, α -ethyl- β -(hydroxymethyl)-2-mercapto-1-methyl-, γ -lactone (5CI) (CA INDEX NAME)



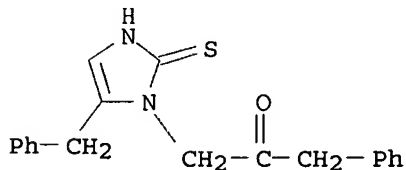
L18 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

1956:36053 Document No. 50:36053 Original Reference No. 50:7104g-i,7105a-g
2-Mercaptoglyoxalines. IX. Preparation of 1,5-disubstituted
2-mercaptoglyoxalines from α -amino acids. Lawson, Alexander;
Morley, H. V. (Roy. Free Hosp. School Med., London). Journal of the
Chemical Society 1695-8 (Unavailable) 1955. CODEN: JCSOA9. ISSN:
0368-1769. OTHER SOURCES: CASREACT 50:36053.

IT 859056-10-3, 2-Propanone, 1-(5-benzyl-2-mercapto-1-imidazolyl)-3-phenyl-
(preparation of)

RN 859056-10-3 CAPLUS

CN INDEX NAME NOT YET ASSIGNED



L18 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

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1972:99886 Document No. 76:99886 Improved synthesis of pilocarpine. DeGraw, J. I. (Stanford Res. Inst., Menlo Park, CA, USA). Tetrahedron, 28(4), 967-72 (English) 1972. CODEN: TETRAB. ISSN: 0040-4020. OTHER SOURCES: CASREACT 76:99886.

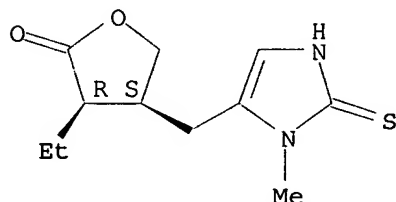
IT 35594-22-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 35594-22-0 CAPLUS

CN 2(3H)-Furanone, 4-[(2,3-dihydro-3-methyl-2-thioxo-1H-imidazol-4-yl)methyl]-3-ethyldihydro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L18 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

1976:5219 Document No. 84:5219 Synthesis of d-pilocarpine-N-14CH₃. DeGraw, Joseph I.; Engstrom, John S.; Willis, Edward (Dep. Pharm. Chem., Stanford Res. Inst., Menlo Park, CA, USA). Journal of Pharmaceutical Sciences, 64(10), 1700-1 (English) 1975. CODEN: JPMSAE. ISSN: 0022-3549.

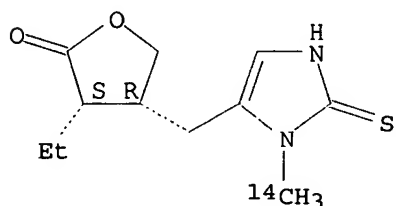
IT 58073-68-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and desulfurization of)

RN 58073-68-0 CAPLUS

CN 2(3H)-Furanone, 4-[[2,3-dihydro-3-(methyl-14C)-2-thioxo-1H-imidazol-4-yl)methyl]-3-ethyldihydro-, (3S-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> d 6-10 cbib pi hitstr

L18 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

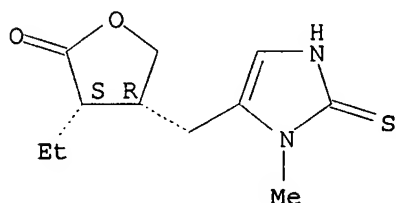
1991:228915 Document No. 114:228915 Preparation of pilocarpine and analogs. Ori, Aiichiro; Imuta, Junichi; Kihara, Noriaki (Mitsui Petrochemical Industries, Ltd., Japan). Eur. Pat. Appl. EP 404175 A1 19901227, 5 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1990-111875 19900622. PRIORITY: JP 1989-158403 19890622.

| | | | | |
|------------|------|------|-----------------|------|
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|------|-----------------|------|

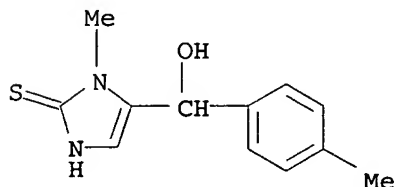
Thomas McKenzie

PI EP 404175 A1 19901227 EP 1990-111875 19900622
 EP 404175 B1 19940427
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE
 JP 03024077 A2 19910201 JP 1989-158403 19890622
 JP 2771257 B2 19980702
 CA 2018978 AA 19901222 CA 1990-2018978 19900614
 CA 2018978 C 19970225
 HU 58080 A2 19920128 HU 1990-3953 19900622
 HU 210053 B 19950130
 AT 104975 E 19940515 AT 1990-111875 19900622
 IT 133868-53-8
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (desulfurization of, method for)
 RN 133868-53-8 CAPLUS
 CN 2(3H)-Furanone, 4-[(2,3-dihydro-3-methyl-2-thioxo-1H-imidazol-4-yl)methyl]-
 3-ethyldihydro-, (3S-cis)- (9CI) (CA INDEX NAME)

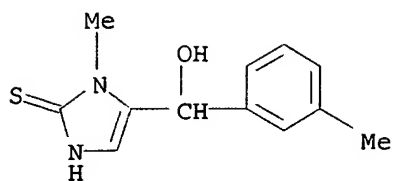
Absolute stereochemistry.



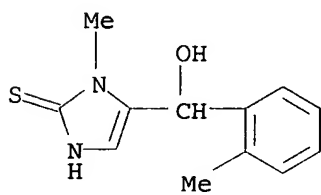
L18 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN
 1991:42649 Document No. 114:42649 Preparation of 5-substituted
 2-mercapto-1-methylimidazoles. Direct metalation of 2-mercapto-1-
 methylimidazole. Phillips, Brian T.; Claremon, David A.; Varga, Sandor L.
 (Dep. Med. Chem., Merck Sharp and Dohme Res. Lab., West Point, PA, 19486,
 USA). Synthesis (9), 761-3 (English) 1990. CODEN: SYNTBF. ISSN:
 0039-7881. OTHER SOURCES: CASREACT 114:42649.
 IT 131470-52-5P 131470-53-6P 131470-54-7P
 131470-56-9P 131470-57-0P 131470-58-1P
 131470-59-2P 131470-62-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 131470-52-5 CAPLUS
 CN 2H-Imidazole-2-thione, 1,3-dihydro-5-[hydroxy(4-methylphenyl)methyl]-1-
 methyl- (9CI) (CA INDEX NAME)



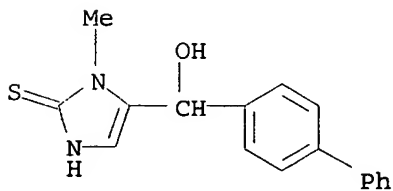
RN 131470-53-6 CAPLUS
 CN 2H-Imidazole-2-thione, 1,3-dihydro-5-[hydroxy(3-methylphenyl)methyl]-1-
 methyl- (9CI) (CA INDEX NAME)



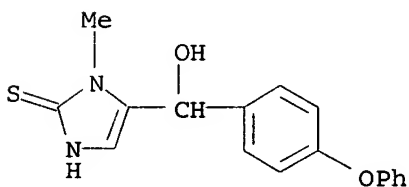
RN 131470-54-7 CAPLUS
 CN 2H-Imidazole-2-thione, 1,3-dihydro-5-[hydroxy(2-methylphenyl)methyl]-1-methyl- (9CI) (CA INDEX NAME)



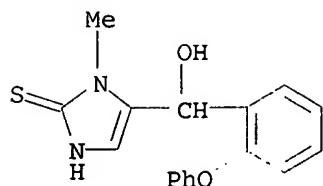
RN 131470-56-9 CAPLUS
 CN 2H-Imidazole-2-thione, 5-([1,1'-biphenyl]-4-ylhydroxymethyl)-1,3-dihydro-1-methyl- (9CI) (CA INDEX NAME)



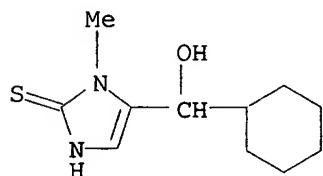
RN 131470-57-0 CAPLUS
 CN 2H-Imidazole-2-thione, 5-[hydroxy(4-phenoxyphenyl)methyl]-1-methyl- (9CI) (CA INDEX NAME)



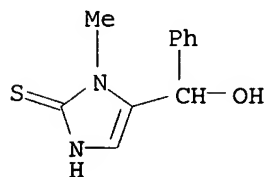
RN 131470-58-1 CAPLUS
 CN 2H-Imidazole-2-thione, 5-[hydroxy(2-phenoxyphenyl)methyl]-1-methyl- (9CI) (CA INDEX NAME)



RN 131470-59-2 CAPLUS
CN 2H-Imidazole-2-thione, 5-(cyclohexylhydroxymethyl)-1,3-dihydro-1-methyl- (9CI) (CA INDEX NAME)



RN 131470-62-7 CAPLUS
CN 2H-Imidazole-2-thione, 1,3-dihydro-5-(hydroxyphenylmethyl)-1-methyl- (9CI) (CA INDEX NAME)



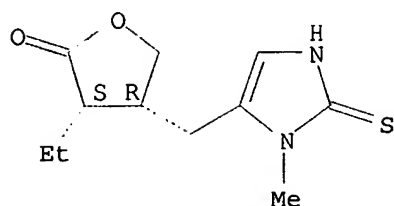
L18 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN
1992:106296 Document No. 116:106296 Preparation of (furanylmethyl)imidazole derivatives as intermediates for antiglaucoma pilocarpines. Imuda, Junichi; Ori, Aiichiro; Kihara, Noriaki (Mitsui Petrochemical Industries, Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 03218374 A2 19910925 Heisei, 4 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1990-311335 19901119. PRIORITY: JP 1989-300750 19891121.

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|-------------|------|----------|-----------------|----------|
| PI | JP 03218374 | A2 | 19910925 | JP 1990-311335 | 19901119 |
| | JP 3037399 | B2 | 20000424 | | |

IT 133868-53-8P, d-2-Mercaptopilocarpine
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as intermediates for pilocarpines)

RN 133868-53-8 CAPLUS
CN 2(3H)-Furanone, 4-[(2,3-dihydro-3-methyl-2-thioxo-1H-imidazol-4-yl)methyl]-3-ethyldihydro-, (3S-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L18 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

1994:579582 Document No. 121:179582 preparation of mercaptoimidazoles as intermediates for pilocarpine analogs. Ori, Aiichiro (Mitsui Petrochemical Industries, Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 06157497 A2 19940603 Heisei, 4 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1992-319112 19921127.

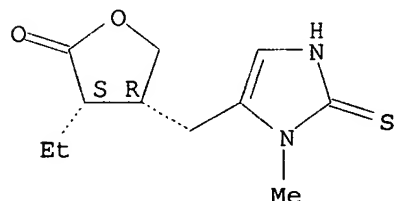
| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|--------------|------|----------|-----------------|----------|
| PI | JP 06157497 | A2 | 19940603 | JP 1992-319112 | 19921127 |
| IT | 133868-53-8P | | | | |

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as intermediate for pilocarpine derivs.)

RN 133868-53-8 CAPLUS

CN 2(3H)-Furanone, 4-[(2,3-dihydro-3-methyl-2-thioxo-1H-imidazol-4-yl)methyl]-3-ethylidihydro-, (3S-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L18 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

1996:155494 Document No. 124:202304 Preparation of α -(acyloxy)benzylheteroaromatics and analogs as herbicides. Chin, Hsiao-Ling Mao; Wei, Yi-Qui; Nguyen, Nhan Huy; Kanne, David Braun (Zeneca Ltd., UK). PCT Int. Appl. WO 9529898 A1 19951109, 82 pp. DESIGNATED STATES: W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, UZ, VN; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1995-GB945 19950426. PRIORITY: US 1994-236309 19940502.

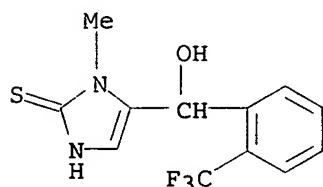
| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-----|--|------|----------|-----------------|----------|
| PI | WO 9529898 | A1 | 19951109 | WO 1995-GB945 | 19950426 |
| W: | AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, UZ, VN | | | | |
| RW: | KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | |

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AU 9523139 A1 19951129 AU 1995-23139 19950426
 ZA 9503390 A 19960112 ZA 1995-3390 19950426
 EP 758323 A1 19970219 EP 1995-916768 19950426
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
 BR 9507595 A 19970916 BR 1995-7595 19950426
 US 5670453 A 19970923 US 1995-468893 19950606
 US 5672567 A 19970930 US 1996-622179 19960325

IT 174337-22-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of α -(acyloxy)benzylheteroaroms. and analogs as
 herbicides)

RN 174337-22-5 CAPLUS
 CN 2H-Imidazole-2-thione, 1,3-dihydro-5-[hydroxy[2-
 (trifluoromethyl)phenyl]methyl]-1-methyl- (9CI) (CA INDEX NAME)



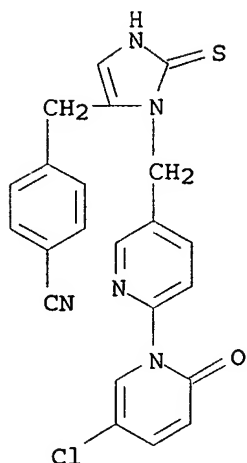
=> d 11-13 cbib pi hitstr

L18 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN
 2001:392096 Document No. 134:366876 Process for synthesizing biaryl
 inhibitors of farnesyl-protein transferase. Askin, David; Cowen, Jennifer
 A.; Maligres, Peter E.; McWilliams, J. Christopher; Waters, Marjorie S.
 (Merck & Co., Inc., USA). U.S. US 6239280 B1 20010529, 20 pp. (English).
 CODEN: USXXAM. APPLICATION: US 1999-345209 19990630.

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|----------|
| US 6239280 | B1 | 20010529 | US 1999-345209 | 19990630 |

PI 340268-90-8P
 IT 340268-90-8P
 RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic
 preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of biaryl-substituted imidazoles)

RN 340268-90-8 CAPLUS
 CN Benzonitrile, 4-[[3-[(5-chloro-2-oxo[1(2H),2'-bipyridin]-5'-yl)methyl]-2,3-
 dihydro-2-thioxo-1H-imidazol-4-yl]methyl]- (9CI) (CA INDEX NAME)



L18 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

2003:342557 Document No. 139:133533 Preparation of a clinically investigated ras farnesyl transferase inhibitor. Malignes, Peter E.; Waters, Marjorie S.; Weissman, Steven A.; McWilliams, J. Christopher; Lewis, Stephanie; Cowen, Jennifer; Reamer, Robert A.; Volante, R. P.; Reider, Paul J.; Askin, David (Dep. Process Research, Merck Research Laboratories, Merck & Co., Inc., Rahway, NJ, 07065, USA). Journal of Heterocyclic Chemistry, 40(2), 229-241 (English) 2003. CODEN: JHTCAD. ISSN: 0022-152X. OTHER SOURCES: CASREACT 139:133533. Publisher: HeteroCorporation.

IT 565427-82-9P 565428-08-2P 565428-09-3P

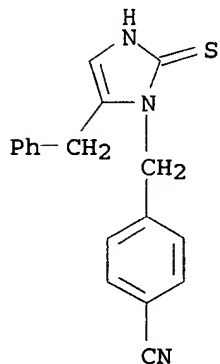
565428-11-7P 565428-15-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of a ras farnesyl transferase inhibitor from 4-(bromomethyl)benzonitrile via an improved Marckwald imidazole synthesis, dethionation, and Mitsunobu cyclization)

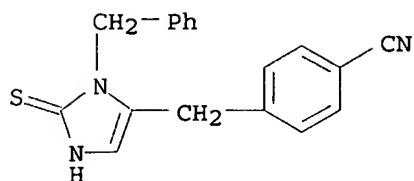
RN 565427-82-9 CAPLUS

CN Benzonitrile, 4-[[2,3-dihydro-5-(phenylmethyl)-2-thioxo-1H-imidazol-1-yl]methyl]- (9CI) (CA INDEX NAME)

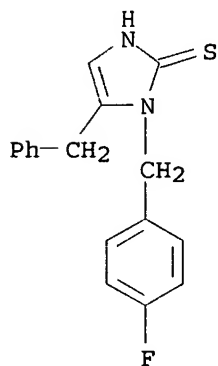


RN 565428-08-2 CAPLUS

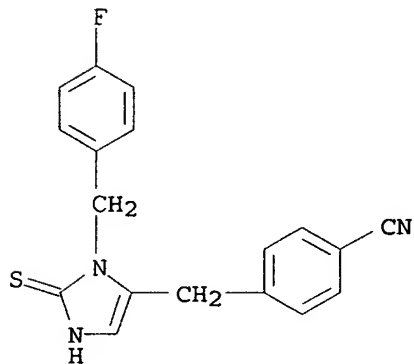
CN Benzonitrile, 4-[[2,3-dihydro-3-(phenylmethyl)-2-thioxo-1H-imidazol-4-yl]methyl]- (9CI) (CA INDEX NAME)



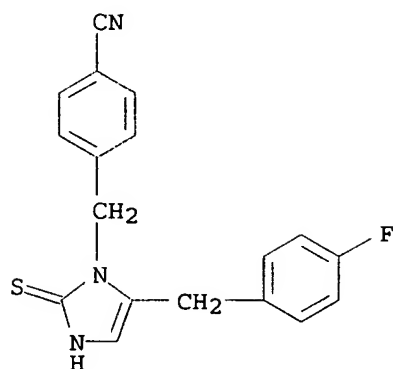
RN 565428-09-3 CAPLUS
 CN 2H-Imidazole-2-thione, 1-[(4-fluorophenyl)methyl]-1,3-dihydro-5-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 565428-11-7 CAPLUS
 CN Benzonitrile, 4-[[3-[(4-fluorophenyl)methyl]-2,3-dihydro-2-thioxo-1H-imidazol-4-yl]methyl]- (9CI) (CA INDEX NAME)



RN 565428-15-1 CAPLUS
 CN Benzonitrile, 4-[[5-[(4-fluorophenyl)methyl]-2,3-dihydro-2-thioxo-1H-imidazol-1-yl]methyl]- (9CI) (CA INDEX NAME)



L18 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

2005:1201083 Document No. 143:460319 Scalable, regioselective synthesis of imidazole derivatives as histamine H3 receptor ligands. Jones, Todd K.; Mani, Neelakandha (USA). U.S. Pat. Appl. Publ. US 2005250948 A1 20051110, 55 pp. (English). CODEN: USXXCO. APPLICATION: US 2005-123631 20050506. PRIORITY: US 2004-2004/PV569405 20040507.

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---|------|----------|-----------------|----------|
| PI | US 2005250948 | A1 | 20051110 | US 2005-123631 | 20050506 |
| | WO 2005110998 | A1 | 20051124 | WO 2005-US16041 | 20050506 |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |

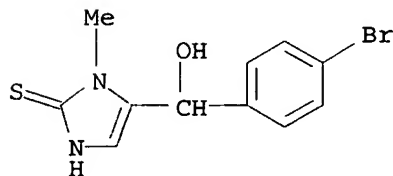
IT 465613-36-9P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

(preparation and S-alkylation of; scalable, regioselective synthesis of imidazole derivs. as histamine H3 receptor ligands)

RN 465613-36-9 CAPLUS

CN 2H-Imidazole-2-thione, 5-[(4-bromophenyl)hydroxymethyl]-1,3-dihydro-1-methyl- (9CI) (CA INDEX NAME)



IT 465615-44-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

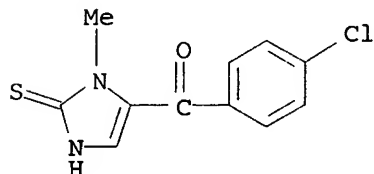
Thomas McKenzie

(Reactant or reagent)

(preparation and S-alkylation of; scalable, regioselective synthesis of imidazole derivs. as histamine H3 receptor ligands)

RN 465615-44-5 CAPLUS

CN Methanone, (4-chlorophenyl) (2,3-dihydro-3-methyl-2-thioxo-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



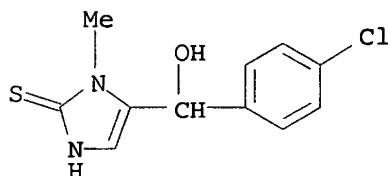
IT 465613-31-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(scalable, regioselective synthesis of imidazole derivs. as histamine H3 receptor ligands)

RN 465613-31-4 CAPLUS

CN 2H-Imidazole-2-thione, 5-[(4-chlorophenyl)hydroxymethyl]-1,3-dihydro-1-methyl- (9CI) (CA INDEX NAME)



=>

=> s 16

L19 6 L6

=> s 119 not 113

L20 5 L19 NOT L13

=> d 1-5 cbib pi hitstr

L20 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

2005:1201083 Document No. 143:460319 Scalable, regioselective synthesis of imidazole derivatives as histamine H3 receptor ligands. Jones, Todd K.; Mani, Neelakandha (USA). U.S. Pat. Appl. Publ. US 2005250948 A1 20051110, 55 pp. (English). CODEN: USXXCO. APPLICATION: US 2005-123631 20050506. PRIORITY: US 2004-2004/PV569405 20040507.

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---|------|----------|-----------------|----------|
| PI | US 2005250948 | A1 | 20051110 | US 2005-123631 | 20050506 |
| | WO 2005110998 | A1 | 20051124 | WO 2005-US16041 | 20050506 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, | | | | |

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SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

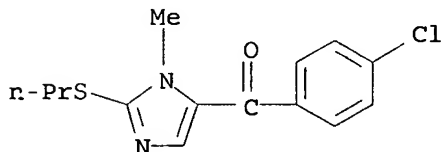
IT 465615-73-0P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

(preparation and S-oxidation of; scalable, regioselective synthesis of imidazole derivs. as histamine H3 receptor ligands)

RN 465615-73-0 CAPLUS

CN Methanone, (4-chlorophenyl) [1-methyl-2-(propylthio)-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



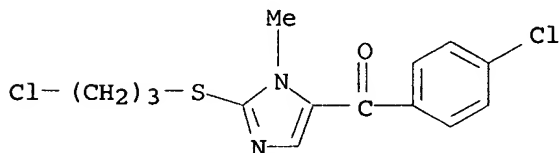
IT 465614-65-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and amination of, with dimethylamine; scalable, regioselective synthesis of imidazole derivs. as histamine H3 receptor ligands)

RN 465614-65-7 CAPLUS

CN Methanone, (4-chlorophenyl) [2-[(3-chloropropyl)thio]-1-methyl-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



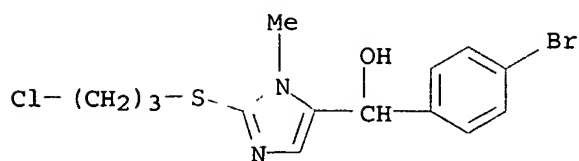
IT 465614-69-1P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

(preparation and amination of, with piperidine; scalable, regioselective synthesis of imidazole derivs. as histamine H3 receptor ligands)

RN 465614-69-1 CAPLUS

CN 1H-Imidazole-5-methanol, α -(4-bromophenyl)-2-[(3-chloropropyl)thio]-1-methyl- (9CI) (CA INDEX NAME)



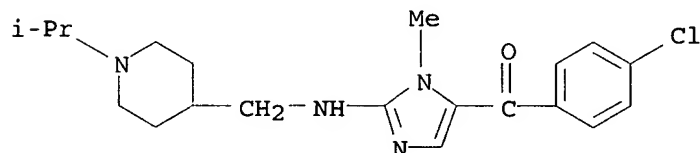
IT 869002-72-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and desilylation of; scalable, regioselective synthesis of imidazole derivs. as histamine H3 receptor ligands)

RN 869002-72-2 CAPLUS

CN Methanone, (4-chlorophenyl) [1-methyl-2-[[[1-(1-methylethyl)-4-piperidiny]methyl]amino]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



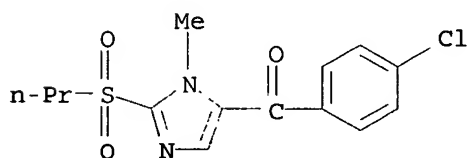
IT 465615-75-2P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

(preparation and nucleophilic displacement of, by piperidinemethoxide derivative; scalable, regioselective synthesis of imidazole derivs. as histamine H3 receptor ligands)

RN 465615-75-2 CAPLUS

CN Methanone, (4-chlorophenyl) [1-methyl-2-(propylsulfonyl)-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



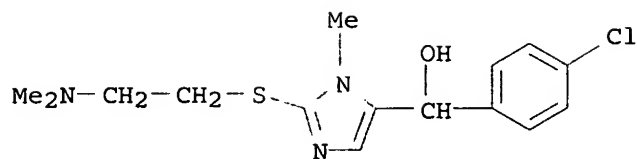
IT 465613-33-6P 465614-60-2P 465614-73-7P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

(preparation and oxidation of, with manganese dioxide; scalable, regioselective synthesis of imidazole derivs. as histamine H3 receptor ligands)

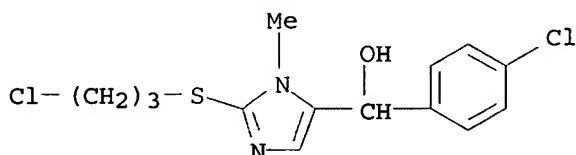
RN 465613-33-6 CAPLUS

CN 1H-Imidazole-5-methanol, α -(4-chlorophenyl)-2-[[2-(dimethylamino)ethyl]thio]-1-methyl- (9CI) (CA INDEX NAME)



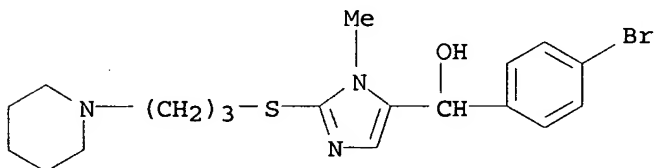
RN 465614-60-2 CAPLUS

CN 1H-Imidazole-5-methanol, α -(4-chlorophenyl)-2-[(3-chloropropyl)thio]-1-methyl- (9CI) (CA INDEX NAME)



RN 465614-73-7 CAPLUS

CN 1H-Imidazole-5-methanol, α -(4-bromophenyl)-1-methyl-2-[[3-(1-piperidiny)propyl]thio]- (9CI) (CA INDEX NAME)



IT 465615-72-9P

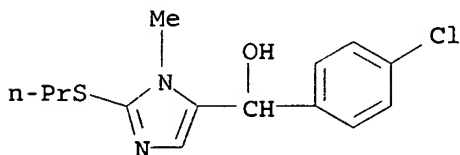
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

(preparation and oxidation of; scalable, regioselective synthesis of imidazole

derivs. as histamine H3 receptor ligands)

RN 465615-72-9 CAPLUS

CN 1H-Imidazole-5-methanol, α -(4-chlorophenyl)-1-methyl-2-(propylthio)- (9CI) (CA INDEX NAME)



IT 465614-56-6P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

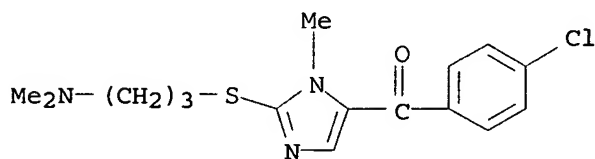
(preparation, receptor binding and deoxygenation or S-oxidation of; scalable,

Thomas McKenzie

regioselective synthesis of imidazole derivs. as histamine H3 receptor ligands)

RN 465614-56-6 CAPLUS

CN Methanone, (4-chlorophenyl) [2-[[3-(dimethylamino)propyl]thio]-1-methyl-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



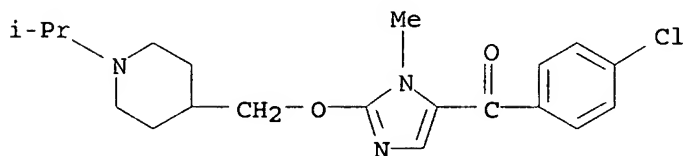
IT 465615-69-4P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

(preparation, receptor binding and maleate salt formation of; scalable, regioselective synthesis of imidazole derivs. as histamine H3 receptor ligands)

RN 465615-69-4 CAPLUS

CN Methanone, (4-chlorophenyl) [1-methyl-2-[[1-(1-methylethyl)-4-piperidiny]methoxy]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



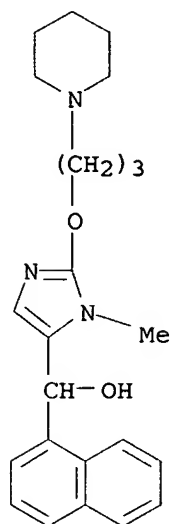
IT 465617-14-5P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

(preparation, receptor binding and oxidation of; scalable, regioselective synthesis of imidazole derivs. as histamine H3 receptor ligands)

RN 465617-14-5 CAPLUS

CN 1H-Imidazole-5-methanol, 1-methyl- α -1-naphthalenyl-2-[3-(1-piperidiny]propoxy]- (9CI) (CA INDEX NAME)



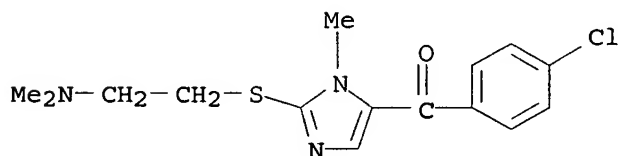
IT 465613-27-8P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

(preparation, receptor binding and oximation of; scalable, regioselective synthesis of imidazole derivs. as histamine H3 receptor ligands)

RN 465613-27-8 CAPLUS

CN Methanone, (4-chlorophenyl) [2-[[2-(dimethylamino)ethyl]thio]-1-methyl-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



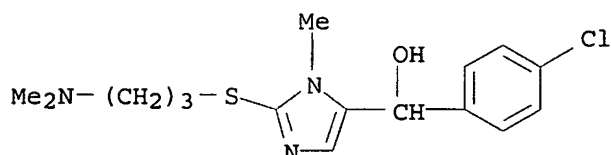
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL
 (Biological study); PREP (Preparation)
 (scalable, regioselective synthesis of imidazole derivs. as histamine
 H3 receptor ligands)

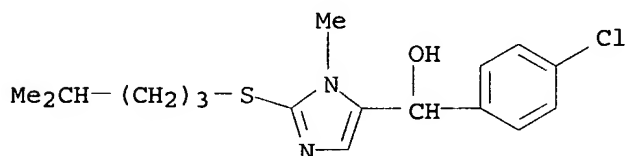
RN 465613-34-7 CAPLUS

CN 1H-Imidazole-5-methanol, α -(4-chlorophenyl)-2-[[3-(dimethylamino)propyl]thio]-1-methyl- (9CI) (CA INDEX NAME)



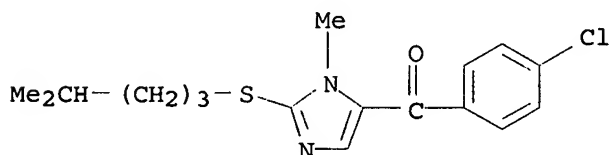
RN 465613-37-0 CAPLUS

CN 1H-Imidazole-5-methanol, α -(4-chlorophenyl)-1-methyl-2-[(4-methylpentyl)thio]- (9CI) (CA INDEX NAME)



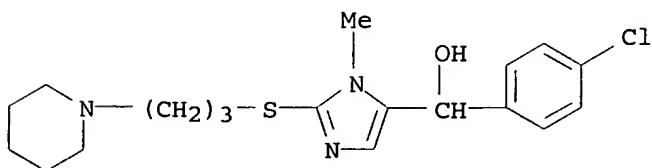
RN 465613-39-2 CAPLUS

CN Methanone, (4-chlorophenyl) [1-methyl-2-[(4-methylpentyl)thio]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



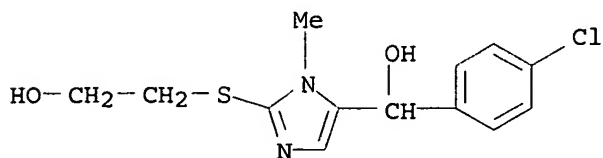
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CN 1H-Imidazole-5-methanol, α -(4-chlorophenyl)-1-methyl-2-[[3-(1-piperidiny)propyl]thio]- (9CI) (CA INDEX NAME)



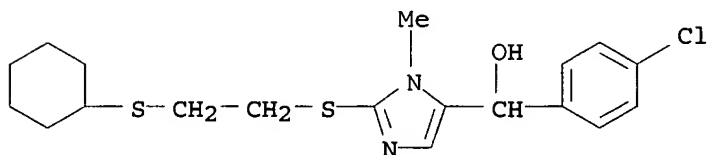
RN 465614-22-6 CAPLUS

CN 1H-Imidazole-5-methanol, α -(4-chlorophenyl)-2-[(2-hydroxyethyl)thio]-1-methyl- (9CI) (CA INDEX NAME)



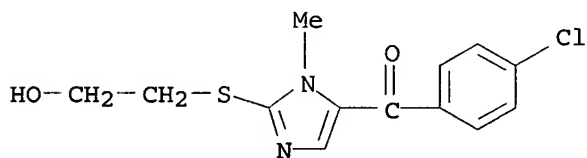
RN 465614-28-2 CAPLUS

CN 1H-Imidazole-5-methanol, α -(4-chlorophenyl)-2-[[2-(cyclohexylthio)ethyl]thio]-1-methyl- (9CI) (CA INDEX NAME)



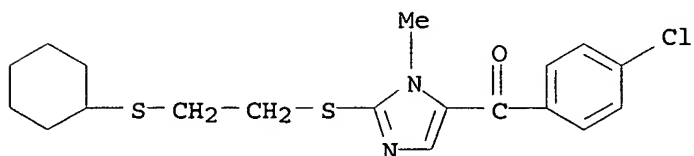
RN 465614-39-5 CAPLUS

CN Methanone, (4-chlorophenyl) [2-[(2-hydroxyethyl)thio]-1-methyl-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



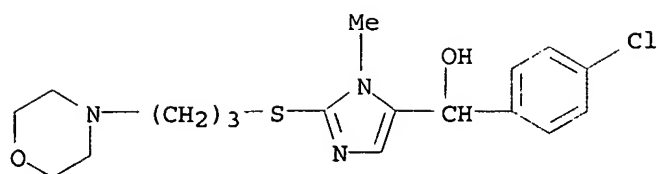
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CN Methanone, (4-chlorophenyl) [2-[[2-(cyclohexylthio)ethyl]thio]-1-methyl-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



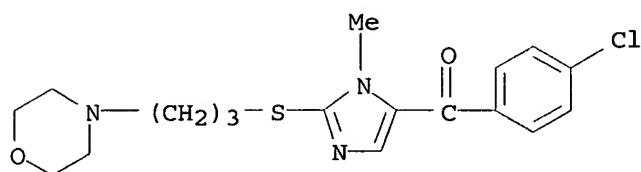
RN 465614-77-1 CAPLUS

CN 1H-Imidazole-5-methanol, α -(4-chlorophenyl)-1-methyl-2-[[3-(4-morpholinyl)propyl]thio]- (9CI) (CA INDEX NAME)



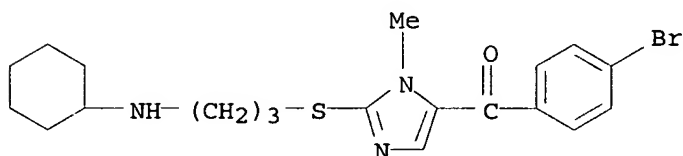
RN 465614-81-7 CAPLUS

CN Methanone, (4-chlorophenyl) [1-methyl-2-[[3-(4-morpholinyl)propyl]thio]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



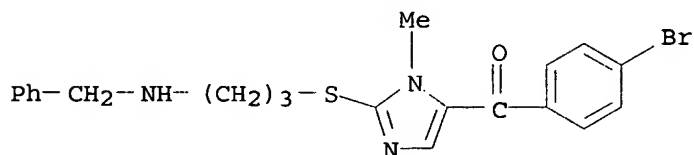
RN 465614-85-1 CAPLUS

CN Methanone, (4-bromophenyl) [2-[[3-(cyclohexylamino)propyl]thio]-1-methyl-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



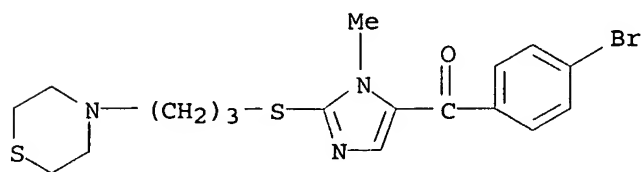
RN 465614-89-5 CAPLUS

CN Methanone, (4-bromophenyl) [1-methyl-2-[[3-[(phenylmethyl)amino]propyl]thio]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



RN 465614-93-1 CAPLUS

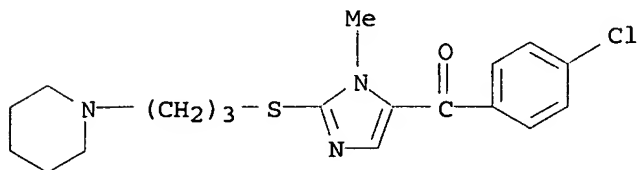
CN Methanone, (4-bromophenyl) [1-methyl-2-[[3-(4-thiomorpholinyl)propyl]thio]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



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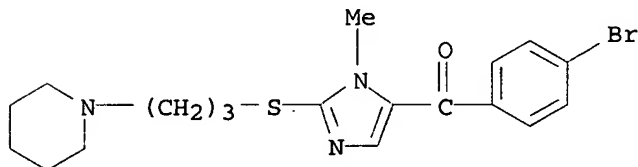
RN 465614-98-6 CAPLUS

CN Methanone, (4-chlorophenyl) [1-methyl-2-[[3-(1-piperidiny)propyl]thio]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



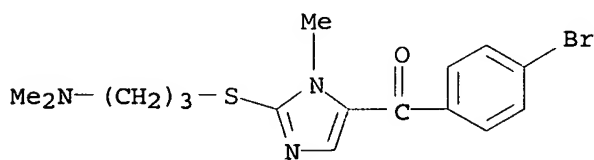
RN 465615-02-5 CAPLUS

CN Methanone, (4-bromophenyl) [1-methyl-2-[[3-(1-piperidiny)propyl]thio]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



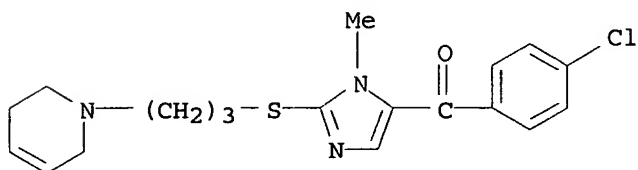
RN 465615-20-7 CAPLUS

CN Methanone, (4-bromophenyl) [2-[[3-(dimethylamino)propyl]thio]-1-methyl-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



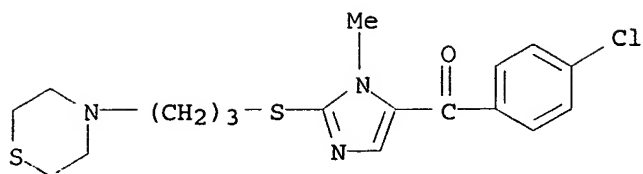
RN 465615-25-2 CAPLUS

CN Methanone, (4-chlorophenyl) [2-[[3-(3,6-dihydro-1(2H)-pyridiny)propyl]thio]-1-methyl-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



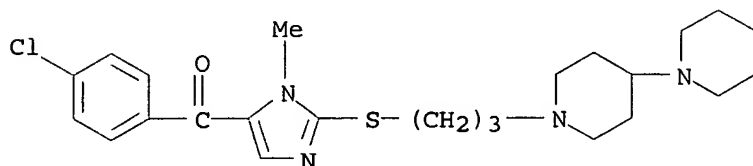
RN 465615-30-9 CAPLUS

CN Methanone, (4-chlorophenyl) [1-methyl-2-[[3-(4-thiomorpholinyl)propyl]thio]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



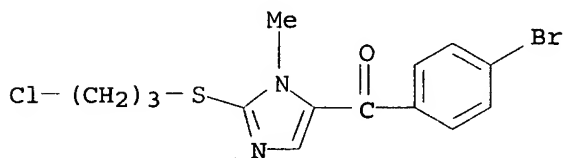
RN 465615-32-1 CAPLUS

CN Methanone, [2-[(3-[1,4'-bipiperidin]-1'-ylpropyl)thio]-1-methyl-1H-imidazol-5-yl](4-chlorophenyl)- (9CI) (CA INDEX NAME)



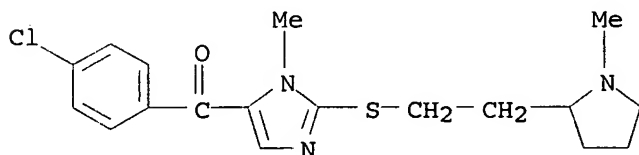
RN 465615-36-5 CAPLUS

CN Methanone, (4-bromophenyl)[2-[(3-chloropropyl)thio]-1-methyl-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



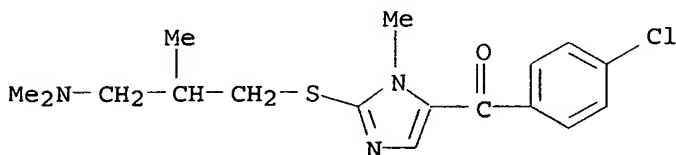
RN 465615-40-1 CAPLUS

CN Methanone, (4-chlorophenyl)[1-methyl-2-[[2-(1-methyl-2-pyrrolidinyl)ethyl]thio]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



RN 465615-52-5 CAPLUS

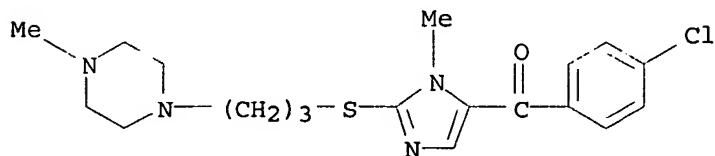
CN Methanone, (4-chlorophenyl)[2-[[3-(dimethylamino)-2-methylpropyl]thio]-1-methyl-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



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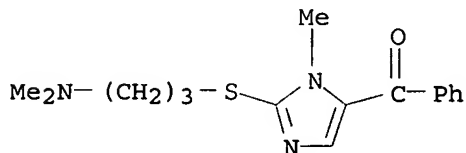
RN 465615-61-6 CAPLUS

CN Methanone, (4-chlorophenyl) [1-methyl-2-[[3-(4-methyl-1-piperazinyl)propyl]thio]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



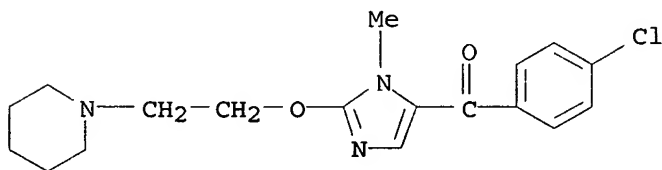
RN 465615-65-0 CAPLUS

CN Methanone, [2-[[3-(dimethylamino)propyl]thio]-1-methyl-1H-imidazol-5-yl]phenyl- (9CI) (CA INDEX NAME)



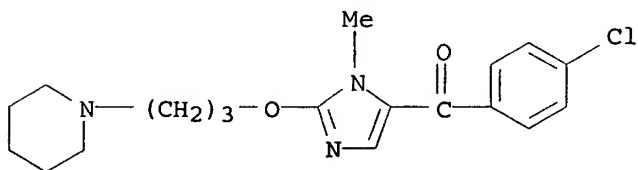
RN 465615-79-6 CAPLUS

CN Methanone, (4-chlorophenyl) [1-methyl-2-[2-(1-piperidinyloxy)ethoxy]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



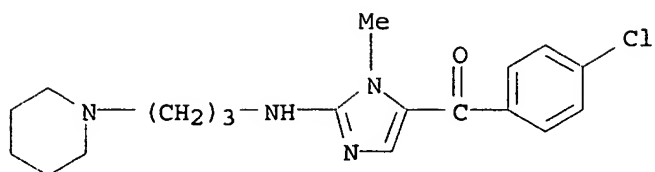
RN 465615-80-9 CAPLUS

CN Methanone, (4-chlorophenyl) [1-methyl-2-[3-(1-piperidinyloxy)propoxy]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



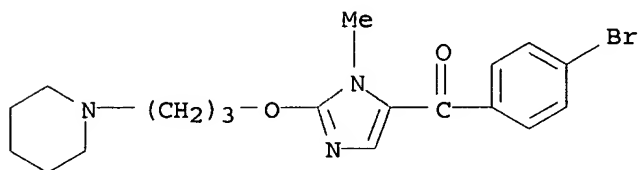
RN 465615-81-0 CAPLUS

CN Methanone, (4-chlorophenyl) [1-methyl-2-[[3-(1-piperidinyloxy)propyl]amino]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



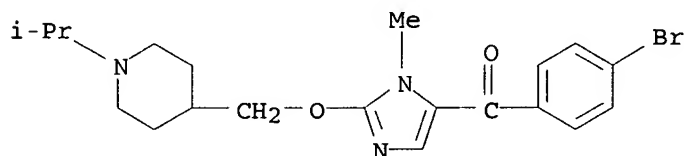
RN 465615-83-2 CAPLUS

CN Methanone, (4-bromophenyl) [1-methyl-2-[3-(1-piperidiny)propoxy]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



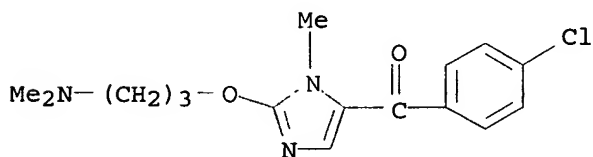
RN 465615-85-4 CAPLUS

CN Methanone, (4-bromophenyl) [1-methyl-2-[[1-(1-methylethyl)-4-piperidiny]methoxy]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



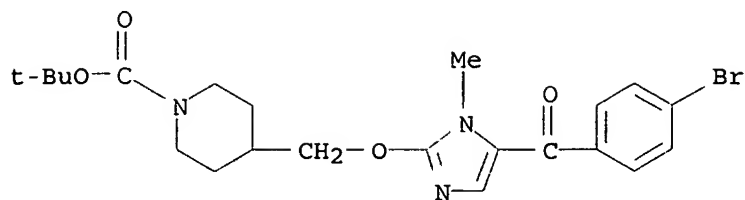
RN 465615-89-8 CAPLUS

CN Methanone, (4-chlorophenyl) [2-[3-(dimethylamino)propoxy]-1-methyl-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



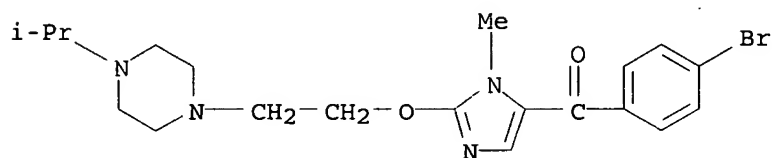
RN 465615-93-4 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[[5-(4-bromobenzoyl)-1-methyl-1H-imidazol-2-yl]oxy]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



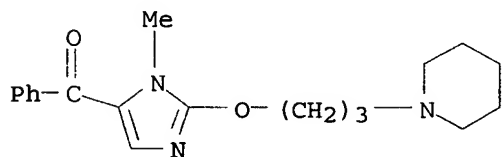
RN 465615-97-8 CAPLUS

CN Methanone, (4-bromophenyl) [1-methyl-2- [2- [4- (1-methylethyl) -1-piperazinyl]ethoxy] -1H-imidazol-5-yl] - (9CI) (CA INDEX NAME)



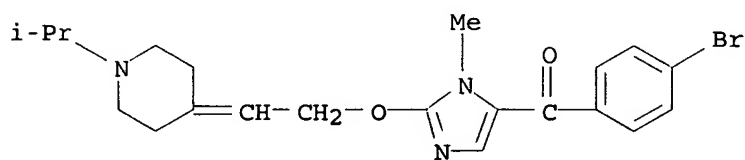
RN 465616-01-7 CAPLUS

CN Methanone, [1-methyl-2- [3- (1-piperidiny)propoxy] -1H-imidazol-5-yl]phenyl- (9CI) (CA INDEX NAME)



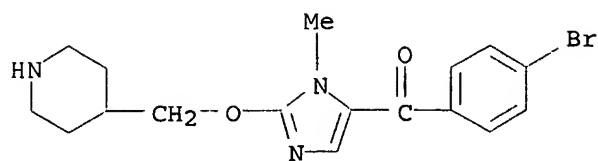
RN 465616-05-1 CAPLUS

CN Methanone, (4-bromophenyl) [1-methyl-2- [2- [1- (1-methylethyl) -4-piperidinylidene]ethoxy] -1H-imidazol-5-yl] - (9CI) (CA INDEX NAME)



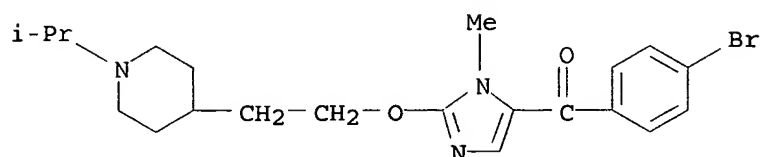
RN 465616-09-5 CAPLUS

CN Methanone, (4-bromophenyl) [1-methyl-2- (4-piperidinylmethoxy) -1H-imidazol-5-yl] - (9CI) (CA INDEX NAME)



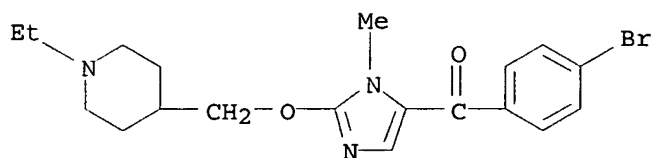
RN 465616-13-1 CAPLUS

CN Methanone, (4-bromophenyl) [1-methyl-2-[2-[1-(1-methylethyl)-4-piperidinyloxy]ethoxy]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



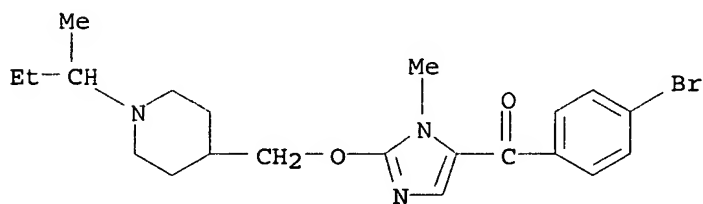
RN 465616-19-7 CAPLUS

CN Methanone, (4-bromophenyl) [2-[(1-ethyl-4-piperidinyloxy)methoxy]-1-methyl-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



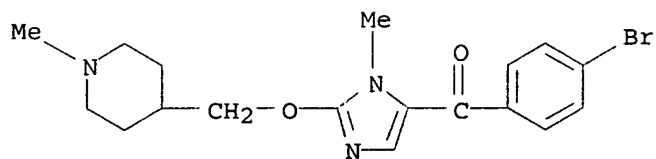
RN 465616-23-3 CAPLUS

CN Methanone, (4-bromophenyl) [1-methyl-2-[[1-(1-methylpropyl)-4-piperidinyloxy]methoxy]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)

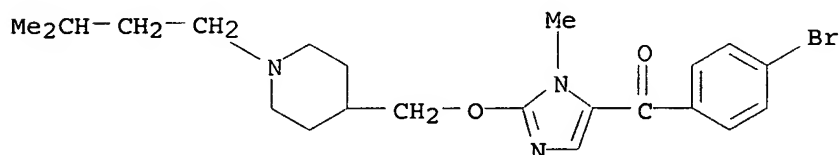


RN 465616-27-7 CAPLUS

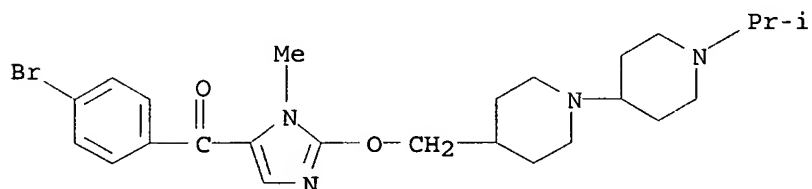
CN Methanone, (4-bromophenyl) [1-methyl-2-[(1-methyl-4-piperidinyloxy)methoxy]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



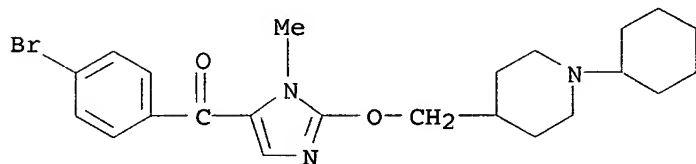
RN 465616-31-3 CAPLUS
 CN Methanone, (4-bromophenyl) [1-methyl-2-[[1-(3-methylbutyl)-4-piperidinyl]methoxy]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



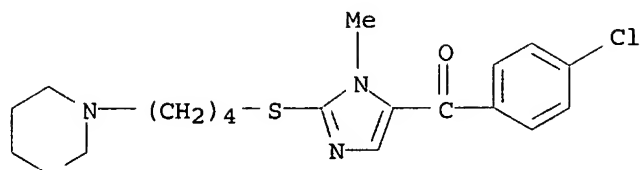
RN 465616-35-7 CAPLUS
 CN Methanone, (4-bromophenyl) [1-methyl-2-[[1'-(1-methylethyl) [1,4'-bipiperidin]-4-yl]methoxy]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



RN 465616-39-1 CAPLUS
 CN Methanone, (4-bromophenyl) [2-[[1-(cyclohexyl-4-piperidinyl)methoxy]-1-methyl-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)

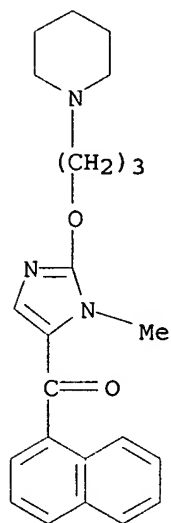


RN 465616-95-9 CAPLUS
 CN Methanone, (4-chlorophenyl) [1-methyl-2-[[4-(1-piperidinyl)butyl]thio]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



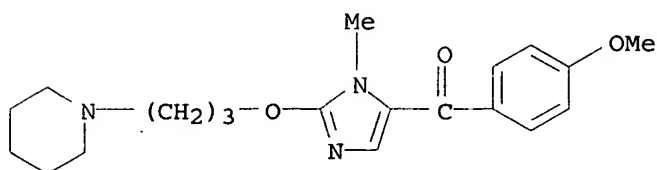
RN 465617-00-9 CAPLUS

CN Methanone, [1-methyl-2-[3-(1-piperidinyl)propoxy]-1H-imidazol-5-yl]-1-naphthalenyl- (9CI) (CA INDEX NAME)



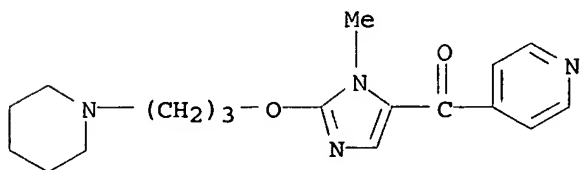
RN 465617-26-9 CAPLUS

CN Methanone, (4-methoxyphenyl) [1-methyl-2-[3-(1-piperidinyl)propoxy]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



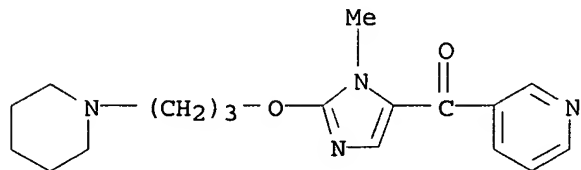
RN 465617-30-5 CAPLUS

CN Methanone, [1-methyl-2-[3-(1-piperidinyl)propoxy]-1H-imidazol-5-yl]-4-pyridinyl- (9CI) (CA INDEX NAME)



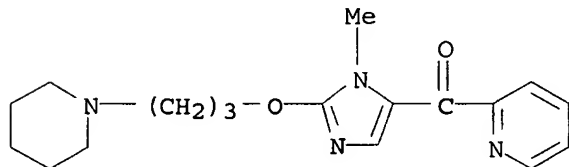
RN 465617-34-9 CAPLUS

CN Methanone, [1-methyl-2-[3-(1-piperidinyl)propoxy]-1H-imidazol-5-yl]-3-pyridinyl- (9CI) (CA INDEX NAME)



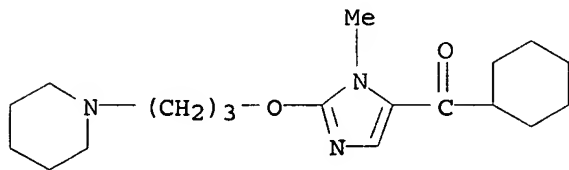
RN 465617-39-4 CAPLUS

CN Methanone, [1-methyl-2-[3-(1-piperidinyl)propoxy]-1H-imidazol-5-yl]-2-pyridinyl- (9CI) (CA INDEX NAME)



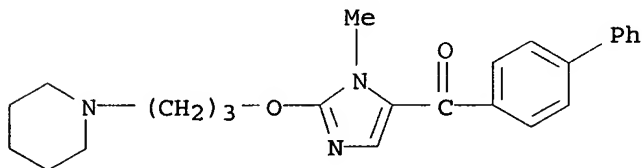
RN 465617-43-0 CAPLUS

CN Methanone, cyclohexyl [1-methyl-2-[3-(1-piperidinyl)propoxy]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



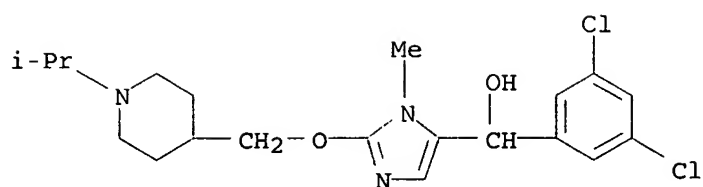
RN 465617-47-4 CAPLUS

CN Methanone, [1,1'-biphenyl]-4-yl [1-methyl-2-[3-(1-piperidinyl)propoxy]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



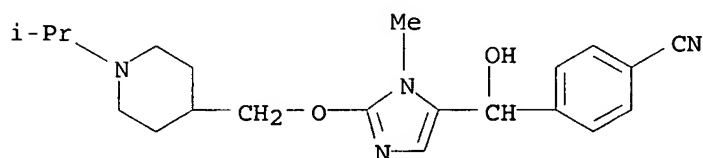
RN 465617-58-7 CAPLUS

CN 1H-Imidazole-5-methanol, α -(3,5-dichlorophenyl)-1-methyl-2-[[1-(1-methylethyl)-4-piperidinyl]methoxy]- (9CI) (CA INDEX NAME)



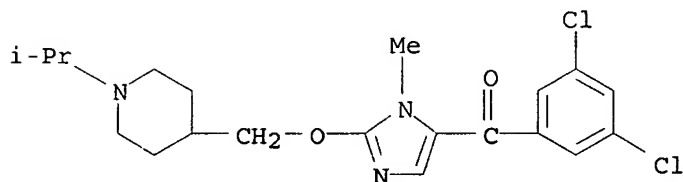
RN 465617-62-3 CAPLUS

CN Benzonitrile, 4-[hydroxy[1-methyl-2-[[1-(1-methylethyl)-4-piperidinyl]methoxy]-1H-imidazol-5-yl]methyl]- (9CI) (CA INDEX NAME)



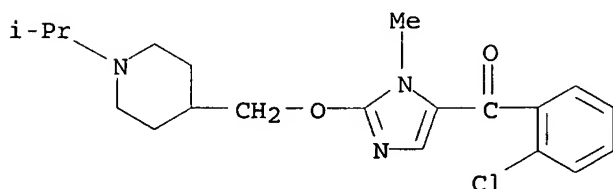
RN 465617-66-7 CAPLUS

Methanone, (3,5-dichlorophenyl)[1-methyl-2-[[1-(1-methylethyl)-4-piperidinyl]methoxy]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



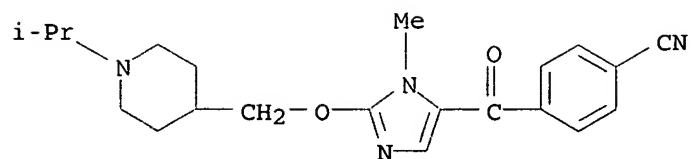
RN 465617-70-3 CAPLUS

CN Methanone, (2-chlorophenyl) [1-methyl-2-[[1-(1-methylethyl)-4-piperidinyl]methoxy]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



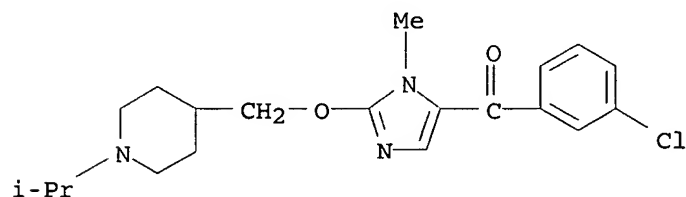
RN 465617-74-7 CAPLUS

CN Benzotrinitrile, 4-[[[1-methyl-2-[[[1-(1-methylethyl)-4-piperidinyl]methoxy]-1H-imidazol-5-yl]carbonyl]- (9CI) (CA INDEX NAME)



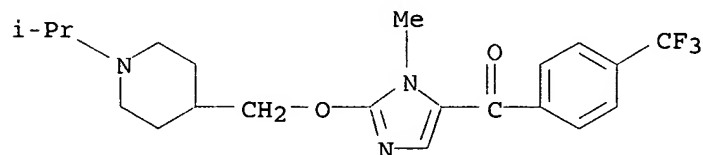
RN 465617-78-1 CAPLUS

CN Methanone, (3-chlorophenyl) [1-methyl-2-[[1-(1-methylethyl)-4-piperidinyl]methoxy]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



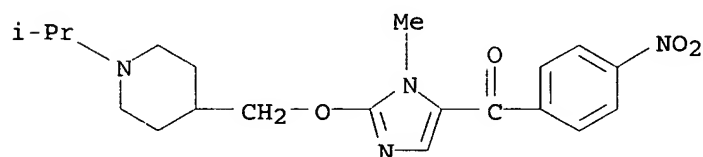
RN 465617-82-7 CAPLUS

CN Methanone, [1-methyl-2-[[1-(1-methylethyl)-4-piperidinyl]methoxy]-1H-imidazol-5-yl] [4-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



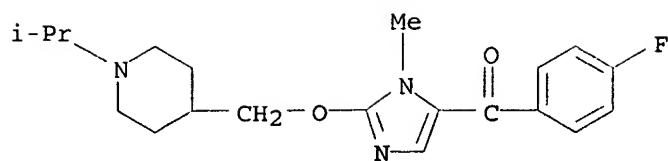
RN 465617-86-1 CAPLUS

CN Methanone, [1-methyl-2-[[1-(1-methylethyl)-4-piperidinyl]methoxy]-1H-imidazol-5-yl] (4-nitrophenyl)- (9CI) (CA INDEX NAME)



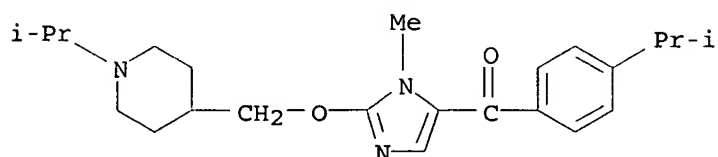
RN 465617-90-7 CAPLUS

CN Methanone, (4-fluorophenyl) [1-methyl-2-[[1-(1-methylethyl)-4-piperidinyl]methoxy]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



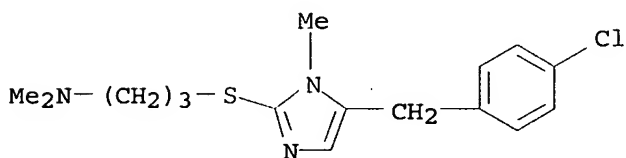
RN 465617-94-1 CAPLUS

CN Methanone, [4-(1-methylethyl)phenyl][1-methyl-2-[[1-(1-methylethyl)-4-piperidinyl]methoxy]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



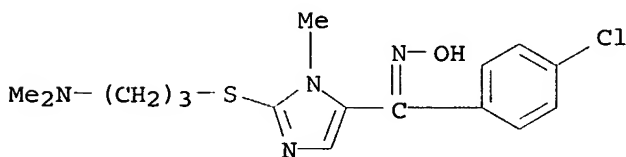
RN 465617-99-6 CAPLUS

CN 1-Propanamine, 3-[[5-[(4-chlorophenyl)methyl]-1-methyl-1H-imidazol-2-yl]thio]-N,N-dimethyl- (9CI) (CA INDEX NAME)



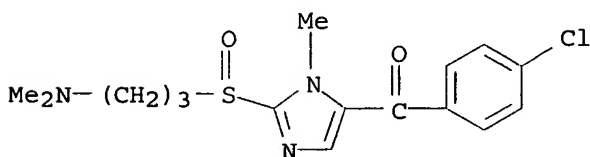
RN 465618-03-5 CAPLUS

CN Methanone, (4-chlorophenyl)[2-[[3-(dimethylamino)propyl]thio]-1-methyl-1H-imidazol-5-yl]-, oxime (9CI) (CA INDEX NAME)



RN 465618-15-9 CAPLUS

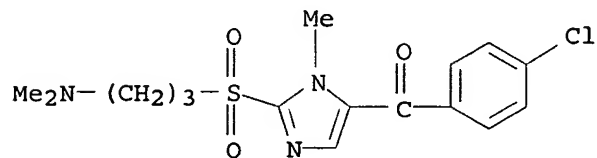
CN Methanone, (4-chlorophenyl)[2-[[3-(dimethylamino)propyl]sulfinyl]-1-methyl-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



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RN 465618-19-3 CAPLUS

CN Methanone, (4-chlorophenyl) [2-[[3-(dimethylamino)propyl]sulfonyl]-1-methyl-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



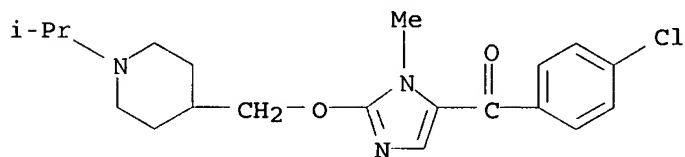
RN 807614-68-2 CAPLUS

CN Methanone, (4-chlorophenyl) [1-methyl-2-[[1-(1-methylethyl)-4-piperidinyl]methoxy]-1H-imidazol-5-yl]-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 465615-69-4

CMF C20 H26 Cl N3 O2

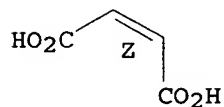


CM 2

CRN 110-16-7

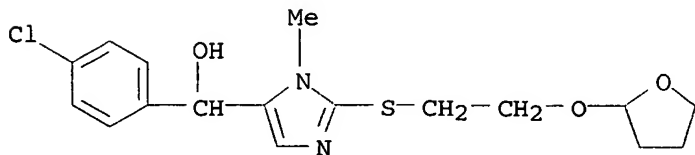
CMF C4 H4 O4

Double bond geometry as shown.



RN 869002-39-1 CAPLUS

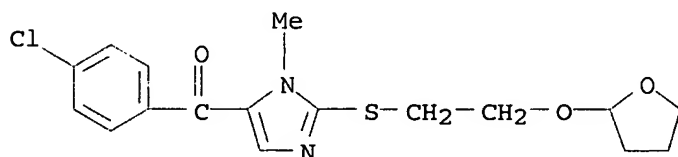
CN 1H-Imidazole-5-methanol, α -(4-chlorophenyl)-1-methyl-2-[[2-[(tetrahydro-2-furanyl)oxy]ethyl]thio]- (9CI) (CA INDEX NAME)



Thomas McKenzie

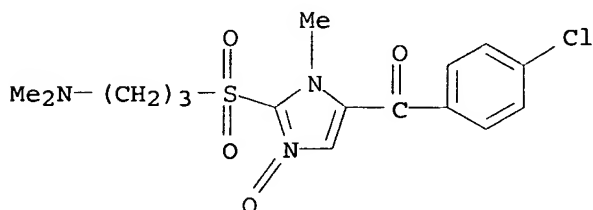
RN 869002-40-4 CAPLUS

CN Methanone, (4-chlorophenyl) [1-methyl-2-[[2-[(tetrahydro-2-furanyl)oxy]ethyl]thio]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



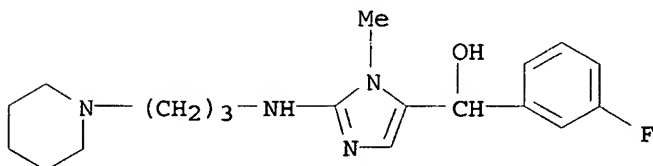
RN 869002-45-9 CAPLUS

CN Methanone, (4-chlorophenyl) [2-[[3-(dimethylamino)propyl]sulfonyl]-1-methyl-3-oxido-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



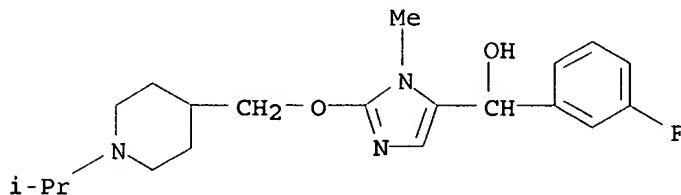
RN 869002-47-1 CAPLUS

CN 1H-Imidazole-5-methanol, α -(3-fluorophenyl)-1-methyl-2-[[3-(1-piperidiny)propyl]amino]- (9CI) (CA INDEX NAME)



RN 869002-54-0 CAPLUS

CN 1H-Imidazole-5-methanol, α -(3-fluorophenyl)-1-methyl-2-[[1-(1-methylethyl)-4-piperidiny]methoxy]- (9CI) (CA INDEX NAME)



L20 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

2005:823671 Document No. 143:229835 Preparation of mainly N-thiazolyl carboxamides as modulators of ATP-binding cassette transporters. Hadida Ruah, Sarah S.; Grootenhuys, Peter D. J.; Miller, Mark T.; Hamilton,

Thomas McKenzie

Matthew (Vertex Pharmaceuticals Incorporated, USA). PCT Int. Appl. WO 2005075435 A1 20050818, 229 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IS, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2005-US2644 20050131.

PRIORITY: US 2004-2004/PV54056U 20040130; US 2004-2004/PV603503 20040820.

PATENT NO. KIND DATE APPLICATION NO. DATE

| | | | | | |
|----|---------------|--|----------|----------------|----------|
| PI | WO 2005075435 | A1 | 20050818 | WO 2005-US2644 | 20050131 |
| | W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| | RW: | BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |

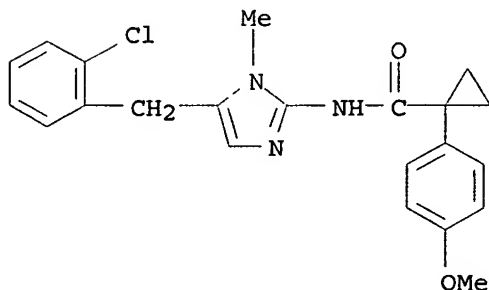
IT 862569-86-6P, 5-[(2-Chlorophenyl)methyl]-2-[[[1-(4-methoxyphenyl)cyclopropyl]carbonyl]amino]-1-methyl-1H-imidazole
 862572-01-8P, 2-[[[1-(Benzodioxol-5-yl)cyclopropyl]carbonyl]amino]-5-[(2-chlorophenyl)methyl]-1-methyl-1H-imidazole 862574-90-1P, 1-(Benzodioxol-5-yl)cyclopropanecarboxylic acid N-[5-(2-chlorobenzyl)-1-methyl-1H-imidazol-2-yl]amide trifluoroacetate

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of N-thiazolyl carboxamides as modulators of ATP-binding cassette transporters)

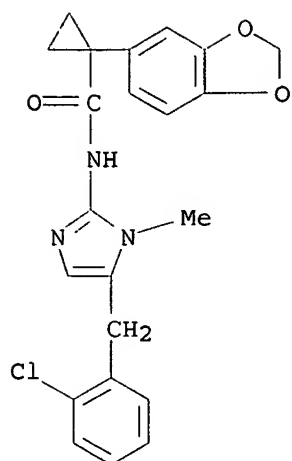
RN 862569-86-6 CAPLUS

CN Cyclopropanecarboxamide, N-[5-[(2-chlorophenyl)methyl]-1-methyl-1H-imidazol-2-yl]-1-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 862572-01-8 CAPLUS

CN Cyclopropanecarboxamide, 1-(1,3-benzodioxol-5-yl)-N-[5-[(2-chlorophenyl)methyl]-1-methyl-1H-imidazol-2-yl]- (9CI) (CA INDEX NAME)



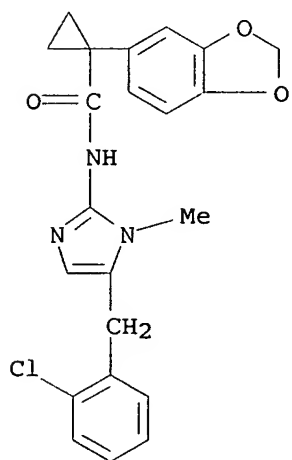
RN 862574-90-1 CAPLUS

CN Cyclopropanecarboxamide, 1-(1,3-benzodioxol-5-yl)-N-[5-[(2-chlorophenyl)methyl]-1-methyl-1H-imidazol-2-yl]-, mono(trifluoroacetate)
(9CI) (CA INDEX NAME)

CM 1

CRN 862572-01-8

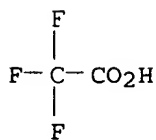
CMF C22 H20 Cl N3 O3



CM 2

CRN 76-05-1

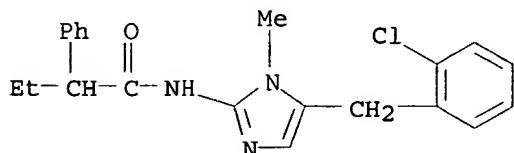
CMF C2 H F3 O2



L20 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

2005:260042 Document No. 142:336395 A preparation of oxazole, thiazole, and imidazole derivatives, useful as modulators of ATP-binding cassette transporters. Miller, Mark T.; Hadida Ruah, Sara S.; Singh, Ashavini K. (Vertex Pharmaceuticals Incorporated, USA; Cleveland, Thomas; Makings, Lewis R.; Hamilton, Matthew; Grootenhuis, Peter D. J.; Hadida Ruah, Sara S.). PCT Int. Appl. WO 2005026137 A2 20050324, 345 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2004-US29206 20040907. PRIORITY: US 2003-2003/PV500444 20030906.

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|--|--------|----------|--|----------|
| PI | WO 2005026137 | A2 | 20050324 | WO 2004-US29206 | 20040907 |
| | WO 2005026137 | A3 | 20050721 | | |
| | W: | | | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | |
| | RW: | | | BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | |
| | US 2005176789 | A1 | 20050811 | US 2004-936448 | 20040907 |
| IT | 848462-56-6P | | | | |
| | RL: | | | PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) | |
| | | | | (preparation of oxazole, thiazole, and imidazole derivs. useful as modulators of ATP-binding cassette transporters) | |
| RN | 848462-56-6 | CAPLUS | | | |
| CN | Benzeneacetamide, N-[5-[(2-chlorophenyl)methyl]-1-methyl-1H-imidazol-2-yl]- α -ethyl- (9CI) (CA INDEX NAME) | | | | |



L20 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

2004:861116 Document No. 142:38188 A Scalable Synthesis of a Histamine H3 Receptor Antagonist. Mani, Neelakandha S.; Jablonowski, Jill A.; Jones, Todd K. (Department of Drug Discovery, Johnson & Johnson Pharmaceutical Research and Development, L.L.C., San Diego, CA, 92121, USA). Journal of Organic Chemistry, 69(23), 8115-8117 (English) 2004. CODEN: JOCEAH. ISSN: 0022-3263. OTHER SOURCES: CASREACT 142:38188. Publisher: American Chemical Society.

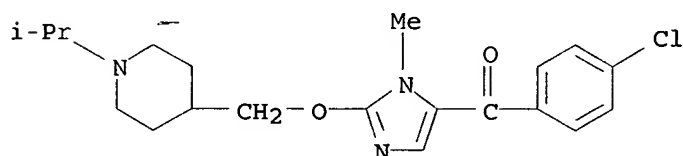
IT 465615-69-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of (chlorophenyl)[(isopropylpiperidinylmethoxy)methylimidazolyl]methanone via chlorination of methylimidazole followed by regioselective substitution with Weinreb amide and nucleophilic substitution with piperidinylmethoxide)

RN 465615-69-4 CAPLUS

CN Methanone, (4-chlorophenyl)[1-methyl-2-[[1-(1-methylethyl)-4-piperidinyl]methoxy]-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



IT 807614-68-2P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of (chlorophenyl)[(isopropylpiperidinylmethoxy)methylimidazolyl]methanone via chlorination of methylimidazole followed by regioselective substitution with Weinreb amide and nucleophilic substitution with piperidinylmethoxide)

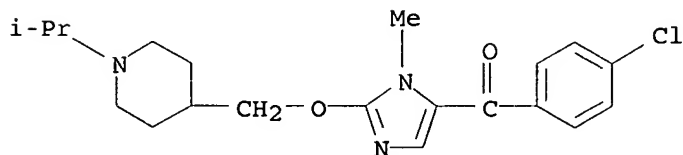
RN 807614-68-2 CAPLUS

CN Methanone, (4-chlorophenyl)[1-methyl-2-[[1-(1-methylethyl)-4-piperidinyl]methoxy]-1H-imidazol-5-yl]-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 465615-69-4

CMF C20 H26 Cl N3 O2

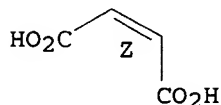


CM 2

CRN 110-16-7

CMF C4 H4 O4

Double bond geometry as shown.



L20 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

1991:471598 Document No. 115:71598 Preparation of imidazoles as transglutaminase inhibitors. Baldwin, John J.; Remy, David C.; Claremon, David A. (Merck and Co., Inc., USA). Eur. Pat. Appl. EP 411705 A1 19910206, 33 pp. DESIGNATED STATES: R: CH, DE, FR, GB, IT, LI, NL. (English). CODEN: EPXXDW. APPLICATION: EP 1990-202069 19900727. PRIORITY: US 1989-386641 19890731.

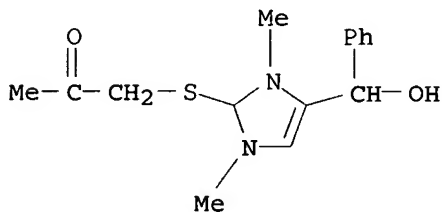
| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| PI | EP 411705 | A1 | 19910206 | EP 1990-202069 | 19900727 |
| | R: CH, DE, FR, GB, IT, LI, NL | | | | |
| | US 5030644 | A | 19910709 | US 1989-386641 | 19890731 |
| | CA 2022116 | AA | 19910201 | CA 1990-2022116 | 19900727 |
| | JP 03128359 | A2 | 19910531 | JP 1990-203781 | 19900731 |
| | US 5098707 | A | 19920324 | US 1991-692430 | 19910429 |

IT 134218-00-1P 134218-19-2P 134218-20-5P
134218-26-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as transglutaminase inhibitor)

RN 134218-00-1 CAPLUS

CN 1H-Imidazolium, 4-(hydroxyphenylmethyl)-1,3-dimethyl-2-[(2-oxopropyl)thio]-, chloride (9CI) (CA INDEX NAME)

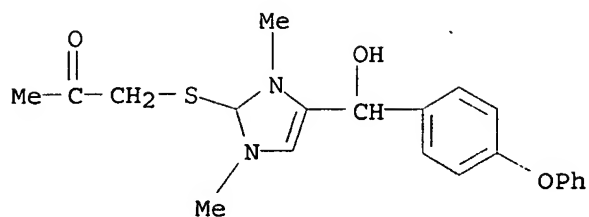


● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 134218-19-2 CAPLUS

CN 1H-Imidazolium, 4-[hydroxy(4-phenoxyphenyl)methyl]-1,3-dimethyl-2-[(2-oxopropyl)thio]-, chloride (9CI) (CA INDEX NAME)

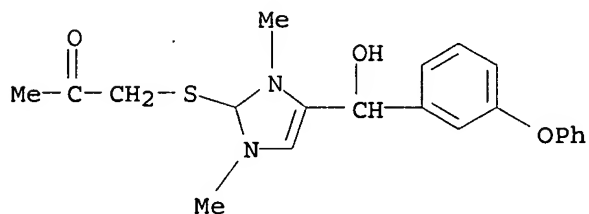


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ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 134218-20-5 CAPLUS

CN 1H-Imidazolium, 4-[hydroxy(3-phenoxyphenyl)methyl]-1,3-dimethyl-2-[(2-oxopropyl)thio]-, chloride (9CI) (CA INDEX NAME)

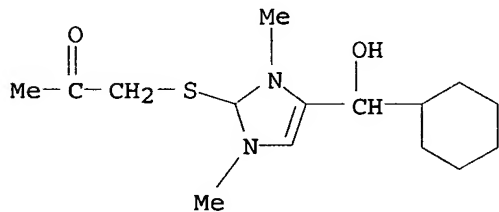


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ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 134218-26-1 CAPLUS

CN 1H-Imidazolium, 4-(cyclohexylhydroxymethyl)-1,3-dimethyl-2-[(2-oxopropyl)thio]-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

Thomas McKenzie

10/757,625 claim 8 update Page 58

LOGOFF? (Y)/N/HOLD:.

STN INTERNATIONAL LOGOFF AT 17:45:07 ON 08 MAR 2006